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QUEEN'S UNIVERSITY

KINGSTON, CANADA



INCORPORATED BY ROYAL CHARTER IN 1841

CALENDAR of THE FACULTY OF MEDICINE

NINETY-SIXTH SESSION

1947-48

The attention of prospective matriculants is directed to the statement on page 30 concerning the filing of applications for admission.

All announcements and regulations contained in this Calendar apply to the current session only.

The Faculty of Medicine reserves the right to make such changes in the regulations and courses of study at any time as experience may prove desirable.

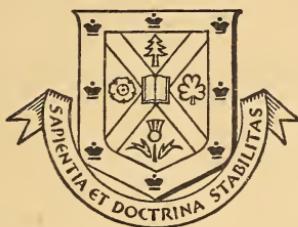
All requests for information should be addressed to the Secretary of the Medical Faculty, Queen's University, Kingston, Ontario.

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KINGSTON, ONTARIO

QUEEN'S UNIVERSITY

KINGSTON, CANADA



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CALENDAR of THE FACULTY OF MEDICINE

NINETY-SIXTH SESSION
1947-48

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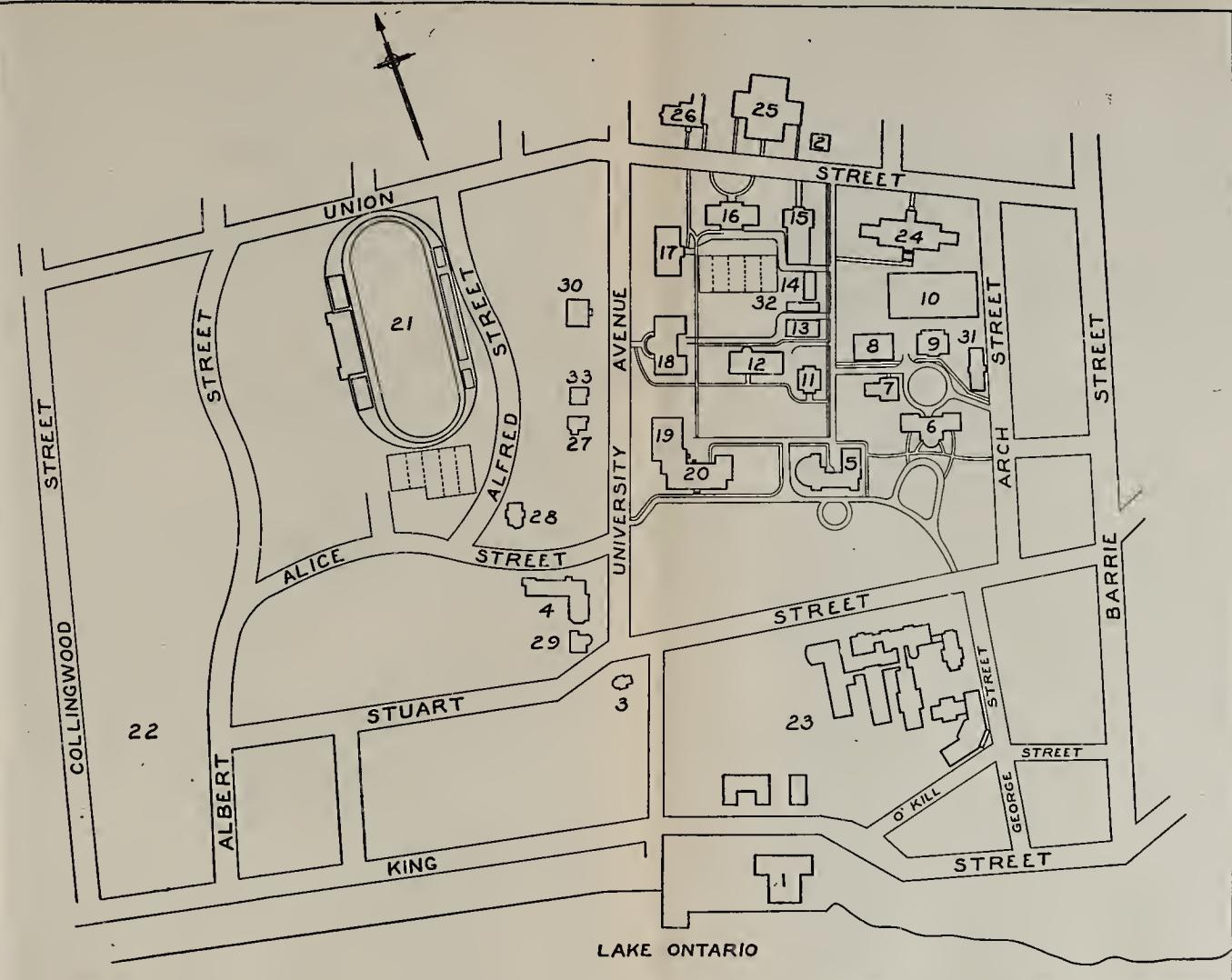
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CALENDAR

1947

1948



BUILDINGS OF QUEEN'S UNIVERSITY

PLAN OF QUEEN'S UNIVERSITY GROUNDS

- | | | |
|--------------------------|--|------------------------------|
| 1. Central Heating Plant | 13. Technical Supplies and Storehouse | 24. Miller Hall |
| 2. Commerce Building | 14. Mechanical Laboratory | 25. Gymnasium |
| 3. Observatory | 15. Nicol Hall | 26. Students' Memorial Union |
| 4. Ban Righ Hall | 16. Gordon Hall | 27. Gordon House |
| 5. Old Arts Building | 17. Douglas Library | 28. Goodwin House |
| 6. Principal's Residence | 18. Ontario Hall | 29. Macdonnell House |
| 7. Old Medical Building | 19. Grant Hall | 30. Muir House |
| 8. Hydraulics Laboratory | 20. Kingston Hall | 31. Craine Building |
| 9. Medical Laboratory | 21. Richardson Stadium | 32. Gun Shed |
| 10. Jock Harty Arena | 22. Leonard Field | 33. Matheson House |
| 11. Carruthers Hall | 23. Kingston General Hospital
and Richardson Laboratory | |
| 12. Fleming Hall | | |

ACADEMIC YEAR

Ninety-sixth Session

1947

Sept. 1, Monday—Supplemental examinations for first, second, third, fourth and sixth years will be held during the week of September 1st. (Clinical examinations will be held in Kingston during the week of September 15.)

Sept. 22, Monday—Registration in all years.

Sept. 23, Tuesday—Classes open for all years.

Oct. 16, Thursday—University Day.

Dec. 20, Saturday—Christmas holidays begin at noon.

1948

Jan. 5, Monday—Classes reopen.

Mar. 25, Thursday—Easter recess begins at 5.30 p.m.

Mar. 26, Friday—Good Friday.

Mar. 28, Sunday—Easter Sunday.

Mar. 31, Wednesday—Classes reopen.

Apr. 5, Monday—Lister Day.

May 8, Saturday—Classes close in all years.

May 10, Monday—Final examinations begin for first, second, third, fourth and fifth years.

May 15, Saturday—University Convocation for conferring degrees upon graduates of the Faculties of Arts and Science.

It is to be clearly understood that the above dates are tentative and may be altered in consideration of changed conditions.

TIME TABLE FOR FIRST YEAR (New Course)

Hours	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
9-10	Physics lect.	Chemistry lect.	Physics lect.	Or. Chem. Lab. B	Physics Lect.	Organ. Chem.
10-11	English	Physics lab. B	English	Physics lab. A	English	Biology lect.
11-12	Biology Lect.	Physics lab. B	Organ. Chem.	Or. Chem. Lab. B	Physics lab. A	Biology Lect.
1:30				Or. Chem. Lab. A	Or. Chem. Lab. B	
2:30	Chemistry lect.	Biology lab.	Or. Chem. Lab. A	Biology lab.	Chemistry lab.	
2:30	Chemistry lab.	Biology lab.	Or. Chem. Lab. A	Biology lab.	Chemistry lab.	
3:30	Chemistry lab.	Biology lab.	Or. Chem. Lab. A	Biology lab.	Chemistry lab.	
4:30						

TIME TABLE FOR SECOND YEAR (New Course)

Hours	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
9-10	Biochem. lect.	Histology A	Histology B	Anatomy	Histology	Biochem. Lect.
10-11	Anatomy	Physics B	Physics A	Histology	Histology	Biochem. Lab.
11-12	Physics	Histology A	Physics B	Physics A	Physics	Biochem. Lab.
1:30		Histology A	Histology B	Anatomy		
2:30	Anatomy	Anatomy	Biochem. Lect.	Anatomy	*Biochemistry	
2:30	Anatomy	Anatomy		Anatomy	Biochemistry	
3:30	Anatomy	Anatomy		Anatomy	Biochemistry	
3:30	Anatomy	Anatomy		Anatomy	Biochemistry	
4:30	Anatomy	Anatomy		Anatomy	Psychology	Psychology
5:30						

TIME TABLE FOR THIRD YEAR (New Course)

Hours	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
9-10	Bacteriology	Anatomy	Bacteriology	Bacteriology	Physiology	1 Anatomy
10-11	Physiology	Anatomy	Anatomy	Anatomy B †Bacteriology A	Anatomy A †Bacteriology B	Anatomy
11-12	Med. Statist.	Anatomy	Anatomy	Anatomy B †Bacteriology A	Anatomy A †Bacteriology B	Anatomy
1-30	*Bacteriology A Physiology B	*Bacteriology B Physiology A	Pharmacol.	Pharmacology	Pharmacology	
2:30	*Bacteriology A Physiology B	Bacteriology B Physiology A	Pharmacol.	Physiology	Psychol. Med.	
2:30	*Bacteriology A Physiology B	Bacteriology B Physiology A			Clin. Physiology	
3:30	Physiology B	Physiology A				
4:30	Physiology B	Physiology A				
4:30	Physiology B	Physiology A				
5:30						

*The Bacteriology laboratory on Thursday and Friday will run from 10 a.m. to 12.30.
*The Bacteriology laboratory on Monday and Tuesday will run from 1 p.m. to 3.30 p.m.

TIME TABLE FOR FOURTH YEAR (New Course)

Hours	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
8-9	Surgery	Surgery	Surgery	Surgery	Surgery	Surgery
9-10	Pharmacology	Pharmacology	Prev. Medicine	Surg. Anat.	Prev. Med.	Psychiatry
10-11	Pathology	Pathology	Medicine	Pathology	Pathology	Pathology
11-12	Medicine	Medicine	Medicine	Medicine	Medicine	Conference
1-2	Jurisprud.	Pharmacology	Public Health Field Course	Pathology	Pathology	
2-3	Radiology	Public Health Field Course	Public Health Field Course	Pathology	Pathology	
3-4	Public Health Field Course		Public Health Field Course	Pathology	Pathology	

TIME TABLE FOR FIFTH YEAR (Old Course)

Hours	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
8-9	Obstetrics	Obstetrics	Obstetrics	Obstetrics	Obstetrics	Obstetrics
9-10	Pathology	E. E. N. & T.	E. E. N. & T.	Prev. Med.	Urology	Prev. Med.
10-11	Medicine	Medicine	Medicine	Medicine	Medicine	Medicine
11-12	Surgery	Surgery	Surgery	Surgery	Surgery	Conference
1-2	Jurisprud.	Paed. A Obst. B	Paed. B Obst. A.	Medicine	Paediat.	A naesth.
2-3	Pathology	Pathology	Pathology	*Psychiatry *Parasitol.	*Psychiatry *Parasitol.	Radiology
3-4	Medicine	Radiology	Pathology	*Psychiatry *Parasitol.		

*These classes meet in sections on alternate Thursdays.
 Psychiatry Section A will alternate with Parasitology Section B and Psychiatry Section B will alternate with Parasitology Section A.

HISTORY OF THE UNIVERSITY

Queen's University owes its origin to the desire of the Synod of the Presbyterian Church in Canada in connection with the Church of Scotland for a ministry trained within the country. As early as 1832 the Provincial Government had been petitioned "to endow without delay an institution, or professorships, for the education and training of young men for the ministry in connection with the Synod." This and other representations failing of their object, steps were taken by the Synod to found a college at Kingston on the lines of the Scottish National Universities. On October 16th, 1841, a Royal Charter was issued by Her Majesty Queen Victoria for the establishment of Queen's College, Kingston, and the first classes were opened in March, 1842, with the Rev. Dr. Liddell as Principal. Funds were provided in part by grants from the Presbyterian Church in Scotland, and from the Canadian Government, and in part by liberal subscriptions from the friends of the young and growing University. In 1867-68 the withdrawal of the Provincial grant, and the failure of the Commercial Bank, which swept away the greater part of the endowment, almost brought financial disaster. But the crisis was met by the determination of Principal Snodgrass and of other self-denying workers chief among whom was Professor Mackerras. The country was canvassed for subscriptions, and as a result of the widespread interest aroused, \$113,000 was added to the endowment.

In 1877 Principal Snodgrass was succeeded by the Rev. G. M. Grant who for a quarter of a century built with brilliant success upon the foundation laid by his predecessors. Under his guidance the University gained rapidly in size and prestige. In 1887, as the result of an effort in commemoration of the Queen's Jubilee, \$250,000 was raised, resulting in further extension, and in the establishment of new professorships.

Principal Grant died in 1902, and was succeeded in the following year by the Very Rev. D. M. Gordon. In 1916, owing to ill-health, Principal Gordon resigned his position but continued in office until the autumn of 1917, when the Rev. R. Bruce Taylor was appointed as his successor. In 1930 Principal Taylor resigned his position and went abroad to live, and Dr. J. C. Connell was appointed Acting-Principal until a new Principal should be found. In October, W. Hamilton Fyfe, Head of Christ's Hospital, England, and formerly Fellow of Merton College, Oxford, was installed as Principal. Principal Fyfe resigned in

1936 to accept the Principalship of the University of Aberdeen, Scotland. Dr. Fyfe was succeeded by Principal R. C. Wallace, President of the University of Alberta from 1928 to 1936.

In 1854 the Medical Faculty of Queen's was established. It was reorganized in 1866 as the Royal College of Physicians and Surgeons in affiliation with the University, but in 1891 the original status was resumed.

Queen's led the way in co-education. As early as 1870 special classes in English and other subjects were formed for women, but courses leading to a degree were not thrown open to them until 1878-79. In 1880 co-education was extended to the medical course, and in 1883 a separate Women's Medical College was opened and affiliated with Queen's. It was closed in 1894, as similar facilities were offered in Toronto and elsewhere. In 1943, for the first time in 49 years, women were again admitted to the Faculty of Medicine.

In 1907 the Ontario Government established at Queen's a Faculty of Education for the purpose of providing professional training for teachers in the secondary schools of the Province. In 1920, however, the work of the Faculty was discontinued because of the decision of the Government to extend the scope of the Normal Schools and to create in Toronto the Ontario College for Teachers.

The School of Mining was founded in 1893 under an Ontario charter and for several sessions all its departments were housed in Carruthers Hall, erected in 1889. The Provincial Legislature in 1900 provided Ontario Hall for the Departments of Physics, Geology and Mineralogy and Fleming Hall for the Departments of Civil, Mechanical, and Electrical Engineering. In 1911 the Provincial Government erected Gordon Hall, which is entirely used by the Department of Chemistry, and through the generosity of the late Professor Nicol and other graduates, Nicol Hall was built to provide class rooms and laboratories for the Department of Mining and Metallurgy. The School of Mining was amalgamated with the University in 1916 and now constitutes its Faculty of Applied Science.

The endowment of the University is at present about \$2,450,000, of which about \$900,000 was obtained in 1918-19. To this sum the late Chancellor Dr. Douglas contributed \$500,000 and the Carnegie Corporation \$250,000. The annual income of the University, derived from all sources, is nearly \$800,000.

There is now on the University Campus a stately group of buildings, comprising the Old Arts Building (now the Theological Building); Carruthers Hall (Civil Engineering); Kingston Hall (Arts), the gift of the city of Kingston; Grant Hall, erected by students, graduates and

friends in honour of Principal Grant; Ontario Hall (Physics, Chemical Engineering); Fleming Hall (Mechanical and Electrical Engineering); Gordon Hall (Chemistry); Nicol Hall (Mining and Metallurgy); the Medical Building (Anatomy and Preventive Medicine); the Medical Laboratories Building; the Craine Building, named in honour of Dr. Agnes Douglas Craine who left a capital sum of \$375,000 for the teaching of Biochemistry; the Gymnasium; Miller Hall (Geology and Mineralogy), named in memory of the late Dr. W. G. Miller; the Observatory; the Douglas Library, named in memory of Dr. James Douglas, a former chancellor of the University, who contributed \$150,000.

Queen's University, though founded by a Church, was dedicated to the nation. As its constituency expanded, its constitution was gradually broadened until finally in 1912, as a result of an amicable arrangement between the Presbyterian Church and the Trustees of the University, an act was passed by the Dominion Parliament removing the last vestige of denominational control. The registration of students has grown from 665 in 1900 to over 6,300 in the present session, and Queen's has become nation-wide in its work and influence.

GOVERNMENT AND ADMINISTRATION

The administration of the University is vested in the Board of Trustees, the University Council, the Senate, and the Faculty Boards.

THE BOARD OF TRUSTEES

The Board of Trustees consists of the Chancellor, the Principal, and the Rector; one representative from each affiliated college; representatives as provided for by the Statutes from the University Council, the Benefactors, the Graduates; and members elected by the Board of Trustees.

The functions of the Board of Trustees are to manage the finances, to possess and care for the property, to procure legislation, to appoint instructors and other officers, and in general to attend to such external matters as do not relate directly to instruction.

THE UNIVERSITY COUNCIL

The University Council consists of the Chancellor, the Trustees, the members of the Senate, and an equal number of members elected by the Graduates from their own numbers.

The annual meeting of the Council is held on the day immediately preceding the Spring Convocation.

The functions of the Council are:

- (1) To elect the Chancellor, except when two or more candidates are nominated, in which case the election is by registered graduates.
- (2) To elect six trustees, two of whom shall retire annually.
- (3) To make by-laws governing the election of the Rector by the registered students, of seven trustees by the benefactors, of six trustees by the University Council, and of six trustees by the graduates.
- (4) To discuss all questions relating to the University and its welfare.
- (5) To make representation of its views to the Senate or the Board of Trustees.
- (6) To decide on proposals for affiliation.

- (7) To arrange all matters pertaining to (a) its own meetings and business, (b) the meetings and proceedings of Convocation, (c) the installation of the Chancellor, (d) the fees for memberships, registration and voting.

THE SENATE

The Senate consists of:

The Principal.

The Vice-Principal.

The Principal of Queen's Theological College.

The Dean of the Faculty of Arts.

The Dean of the Faculty of Medicine.

The Dean of the Faculty of Applied Science.

Three Professors elected by the Faculty of Arts.

Three Professors elected by the Faculty of Medicine.

Three Professors elected by the Faculty of Applied Science.

Two Professors elected by the Faculty of Queen Theological College.

The functions of the Senate are:

(1) To determine all matters of an academic character which concern the University as a whole.

(2) To consider and determine all courses of study leading to a degree, including conditions of Matriculation, on recommendation of the respective Faculty Boards; but the Senate shall not embody any changes without having previously presented these to the Faculty.

(3) To recommend to the Board of Trustees the establishment of any additional Faculty, Department, Chair or Course of Instruction in the University.

(4) To be the medium of communication between the Alma Mater Society and the Governing Boards.

(5) To determine all regulations regarding the social functions of the students within the University, and regarding the University Library and University Reading Rooms.

(6) To publish the University Calendars.

(7) To conduct examinations.

(8) To grant Degrees.

(9) To award University Scholarships, Medals, and Prizes.

(10) To enforce the Statutes, Rules, and Ordinances of the University.

(11) To make such recommendations to the Governing Boards as may be deemed expedient for promoting the interests of the University.

THE FACULTY BOARD

The Dean, Professors, Associate Professors, and Assistant Professors, have power to meet as a separate board, and to administer the affairs of the Faculty under such regulations as the Board of Trustees may prescribe. The Principal and Vice-Principal are members of the Faculty Board, of which the Principal is ex-officio president.

The functions of the Faculty Board are:

(1) To recommend to the Senate courses of study leading to a degree, and the conditions of admission.

(2) To decide upon applications for admission or for change of course, subject to the regulations of the Senate.

(3) To submit to the Senate names for both ordinary and honorary degrees.

(4) To arrange the time-table for classes and to edit the Faculty Calendar, subject to the approval of the Senate.

(5) To control registration, and determine the amount of fees and manner of payment, subject to the regulations of the Senate.

(6) To deal with class failures.

(7) To exercise academic supervision over students.

(8) To make such recommendations to the Senate as may be deemed expedient for promoting the efficiency of the University.

(9) To award Faculty Scholarships, Medals, and Prizes.

(10) To appoint such sessional assistants, fellows, tutors, and demonstrators as shall be needed to give instruction in the subjects taught by the Faculty.

(11) To pass such regulations and by-laws as may be necessary for the exercise of the functions of the Faculty.

OFFICERS OF ADMINISTRATION

THE UNIVERSITY

CHANCELLOR—The Honourable Charles Avery Dunning, P.C., LL.D.

CHAIRMAN OF THE BOARD OF TRUSTEES— J. M. Macdonnell, M.C., M.A., LL.D., K.C., M.P.

PRINCIPAL AND VICE-CHANCELLOR—Robert C. Wallace, C.M.G., M.A., D.Sc., Ph.D., LL.D., D.C.L., F.G.S., F.R.S.C.

VICE-PRINCIPAL AND DEAN OF THE FACULTY OF ARTS—W. A. Mackintosh, C.M.G., M.A., Ph.D., LL.D., F.R.S.C.

RECTOR—B. K. Sandwell, B.A., LL.D., D.C.L., F.R.S.C.

REGISTRAR—Jean I. Royce, B.A.

DEAN OF WOMEN—A. Vibert Douglas, M.B.E., M.Sc., Ph.D.

LIBRARIAN—H. P. Gundy, M.A.

DIRECTOR OF ENDOWMENT AND TREASURER—G. J. SMITH, B.A., B.Sc.

DIRECTOR, DEPARTMENT OF UNIVERSITY EXTENSION—Harry K. Hutton, M.A., B.Paed.

DIRECTOR OF SUMMER SCHOOL—H. L. Tracy, B.A., Ph.D.

DIRECTOR, SCHOOL OF NURSING—Dorothy M. Riches, R.R.C., B.A., Reg.N.

ASSISTANT REGISTRAR—K. Jean Richardson, B.A.

ASSISTANT DIRECTOR, DEPARTMENT OF UNIVERSITY EXTENSION—Kathleen L. Healey.

MEDICAL OFFICER—P. M. Macdonnell, M.A., M.D., C.M.

UNIVERSITY CHAPLAIN—Rev. A. M. Laverty, B.A., B.D.

ADVISER TO VETERANS—W. D. MacClement, B.A., Ph.D.

CHIEF PROCTOR—H. J. Styles, B.Sc.

SECRETARY OF THE GENERAL ALUMNI ASSOCIATION AND MANAGER OF THE EMPLOYMENT BUREAU—H. J. Hamilton, B.A.

SECRETARY-TREASURER OF THE ATHLETIC BOARD OF CONTROL—Charles Hicks.

MAINTENANCE ENGINEER—R. Hinton.

THE FACULTY OF ARTS

(Founded 1841)

DEAN—W. A. Mackintosh, C.M.G., M.A., Ph.D., LL.D., F.R.S.C.

SECRETARY—Jean I. Royce, B.A.

THE FACULTY OF MEDICINE

(Founded 1854)

DEAN—G. Spencer Melvin, M.D.

SECRETARY—John H. Orr, M.D., C.M., F.R.C.P.(C).

THE FACULTY OF APPLIED SCIENCE

(Founded 1893)

DEAN—D. S. Ellis, D.S.O., B.Sc., M.A., M.C.E.

SECRETARY—A. Jackson, B.Sc.

THE BOARD OF TRUSTEES

CHAIRMAN—J. M. Macdonnell, M.C., M.A., LL.D., K.C., M.P.

EX-OFFICIO MEMBERS

The Honourable Charles Avery Dunning, P.C., LL.D.	Chancellor
Robert C. Wallace, C.M.G., M.A., D.Sc., Ph.D., LL.D., D.C.L., F.G.S., F.R.S.C.	Principal
B. K. Sandwell, B.A., LL.D., D.C.L., F.R.S.C.	Rector

ELECTIVE MEMBERS

Retire 1948

H. G. BERTRAM, B.Sc. ¹	Dundas, Ont.
REV. G. A. BROWN, M.A., B.D., D.D. ⁵	Kingston, Ont.
E. A. COLLINS, B.Sc., LL.D. ³	Copper Cliff, Ont.
SENATOR A. C. HARDY, B.A., LL.B., P.C., K.C. ⁶	Brockville, Ont.
R. D. HARKNESS, D.S.O., M.C., B.Sc. ⁷	Montreal, Que.
M. N. HAY, B.Sc. ⁴	Kingston, Ont.
H. G. HILTON, B.Sc. ⁶	Hamilton, Ont.
DENNIS JORDAN, B.A., M.D., C.M. ⁶	Toronto, Ont.
D. H. LAIRD, M.A., LL.D., K.C. ¹	Winnipeg, Man.
B. M. STEWART, M.A., Ph.D. ³	New York, N.Y.

Retire 1949

HIS HONOUR JUDGE C. A. CAMERON, B.A. ¹	Belleville Ont.
W. C. CLARK, C.M.G., M.A., LL.D. ³	Ottawa, Ont.
J. G. DWYER, M.A., M.D., C.M., LL.D. ⁶	New York, N.Y.
J. C. MACFARLANE, M.A., K.C. ¹	Toronto, Ont.
T. A. McGINNIS, B.Sc. ²	Kingston, Ont.
D. I. MCLEOD, B.A. ⁶	Toronto, Ont.
ALEXANDER MACPHAIL, C.M.G., D.S.O., B.Sc., LL.D. ³	Kingston, Ont.
A. E. MACRAE, B.Sc. ⁷	Ottawa, Ont.
R. M. SMITH, B.Sc., LL.D. ⁶	Toronto, Ont.
J. B. STIRLING, B.A., B.Sc. ⁴	Montreal, Que.

Retire 1950

MRS. H. B. CAMPBELL, B.A. ³	Montreal, Que.
J. A. EDMISON, B.A., K.C. ³	Toronto, Ont.
J. M. FARRELL, B.A., LL.D., K.C. ⁶	Kingston, Ont.
D. A. GILLIES, B.A. ⁷	Arnprior, Ont.
J. E. MCASKILL, M.D., C.M. ¹	Watertown, N.Y.
J. M. MACDONNELL, M.C., M.A., LL.D., K.C., M.P. ²	Toronto, Ont.
A. G. MACLACHLAN, B.Sc. ¹	Kingston, Ont.
W. E. MCNEILL, M.A., Ph.D., D.C.L., LL.D., F.R.S.C. ⁶	Kingston, Ont.
W. A. NEWMAN, B.Sc. ⁴	Montreal, Que.
MRS. JAMES RICHARDSON ³	Winnipeg, Man.

Retire 1951

ELMER DAVIS, ESQ. ⁶	Kingston, Ont.
A. J. MEIKLEJOHN, B.A. ⁶	Kingston, Ont.
D. K. MACTAVISH, B.A., K.C. ²	Ottawa, Ont.

¹Elected by the University Council for three years.

²Elected by the Benefactors for four years.

³Elected by the Graduates for three years.

⁴Elected by the Board of Trustees to represent the Faculty of Applied Science for three years.

⁵Appointed by the Governing Board of Queen's Theological College for one year.

⁶Elected by the Board of Trustees for four years.

⁷Elected by Benefactors to represent the Faculty of Applied Science for three years.

THE UNIVERSITY COUNCIL

Secretary

GORDON J. SMITH, B.A., B.Sc.

Ex-officio Members

THE CHANCELLOR

THE PRINCIPAL

THE MEMBERS OF THE BOARD OF TRUSTEES

THE MEMBERS OF THE SENATE

Elective Members

Retire 1948

JAMES BARTLETT, B.Sc.	Ottawa, Ont.
C. H. BLAND, B.A.	Ottawa, Ont.
*HIS HONOUR JUDGE C. A. CAMERON, B.A.	Belleville, Ont.
MRS. F. C. CASSELMAN, B.A.	Edmonton, Alta.
MRS. D. M. CHOWN, B.A.	Kingston, Ont.
REV. A. D. CORNETT, M.A., D.D.	Oshawa, Ont.
D. G. GEIGER, B.Sc.	Toronto, Ont.
J. A. POLSON, M.D., C.M.	Bronxville, N.Y.
G. J. SMITH, B.A., B.Sc.	Kingston, Ont.

Retire 1949

G. C. BATEMAN, C.M.G., O.B.E., B.Sc., LL.D.	Montreal, Que.
J. A. BELL, B.Sc.	Toronto, Ont.
W. G. CORNETT, B.A., M.D., C.M.	Hamilton, Ont.
J. J. DUNLOP, B.A.	Ottawa, Ont.
J. Y. MACKINNON, M.A., B.D., Ph.D.	London, Ont.
N. B. MACROSTIE, B.A., B.Sc.	Ottawa, Ont.
J. L. MURRAY, B.A.	Kingston, Ont.
MRS. T. A. NEWLANDS, M.A.	Kingston, Ont.
MISS MARY E. WHITE, M.A.	Toronto, Ont.

Retire 1950

MRS. D. W. BOUCHER, B.A.	Kingston, Ont.
C. W. DRURY, B.Sc., Ph.D.	Toronto, Ont.
D. D. FINDLAY, B.Sc.	Carleton Place, Ont.
*J. C. MACFARLANE, M.A., K.C.	Toronto, Ont.
B. R. MACKAY, B.Sc., Ph.D.	Ottawa, Ont.
W. A. NEWMAN, B.Sc.	Montreal, Que.
W. P. E. PATERSON, M.D., C.M.	Ottawa, Ont.
C. M. SCOTT, B.A., M.D., C.M.	Peterborough, Ont.
E. T. STERNE, B.Sc.	Brantford, Ont.

Retire 1951

R. W. ANGLIN, M.A.	Toronto, Ont.
T. H. FARRELL, M.A., M.D.,C.M. ¹	Utica, N.Y.
D. E. KEELEY, B.Sc.	Schumacher, Ont.
*D. H. LAIRD, M.A., LL.D., K.C.	Winnipeg, Man.
*J. E. MCASKILL, M.D.,C.M.	Watertown, N.Y.
MISS MARY McCALLUM, M.A.	Smiths Falls, Ont.
E. M. PATTON, B.Com.	Montreal, Que.
MISS ANNE H. SEDGEWICK, M.A.	Ottawa, Ont.
C. D. WIGHT, B.Sc.	Ottawa, Ont.

Retire 1952

*H. G. BERTRAM, B.Sc.	Dundas, Ont.
C. R. BOOTH, B.Sc.	Ottawa, Ont.
H. T. EWART, B.A., M.D.,C.M.	Hamilton, Ont.
FRANCIS KING, M.A., LL.D., K.C.	Kingston, Ont
E. L. LONGMORE, B.Sc.	Timmins, Ont.
L. A. PIERCE, B.A., S.T.D., LL.D., Litt.D.	Toronto, Ont.
S. M. POLSON, M.A., M.D.,C.M.	Kingston, Ont.
JAMES WALLACE, M.A., B.D., M.D.,C.M.	Renfrew, Ont.
R. M. WINTER, M.B.E., M.A.	Toronto, Ont.

Retire 1953

O. E. AULT, B.A., B.Paed., Ph.D.	Ottawa, Ont.
M. J. AYKROYD, B.Sc.	Toronto, Ont.
A. F. G. CADENHEAD, B.A., D.Sc.	Shawinigan Falls, Que.
MRS. R. B. CRUMMY, B.A.	Vancouver, B.C.
MISS FLORENCE S. DUNLOP, M.A., Ph.D.	Ottawa, Ont.
J. F. HOUSTON, M.D.,C.M.	Hamilton, Ont.
*A. G. MACLACHLAN, B.Sc.	Kingston, Ont.
G. C. MONTURE, B.Sc.	Ottawa, Ont.
WALLACE TROUP, M.D.,C.M.	Ottawa, Ont.

*Representative of the Council on the Board of Trustees.

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H. HENEL, Ph.D.	Retires 1948
J. A. CORRY, LL.B., B.C.L., LL.M., F.R.S.C.	Retires 1949
R. G. TROTTER, M.A., Ph.D., D.C.L., F.R.Hist.S., F.R.S.C.	Retires 1950

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D. M. JEMMETT, D.C.M., B.Sc., M.A.	Retires 1948
R. L. DORRANCE, M.A., F.C.I.C.	Retires 1949
H. W. HARKNESS, M.Sc., Ph.D.	Retires 1950

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E M. RORERTSON, M.B., Ch.B., F.R.C.O.G., F.R.C.S.(Edin.)	Retires 1949
W. A. JONES, M.D., F.R.C.P.(C), F.F.R.(Lond.)	Retires 1950

The Faculty of Queen's Theological College

REV. J. M. SHAW, M.A., D.D.	Retires 1948
REV. S. M. GILMOUR, B.D., Ph.D.	Retires 1948

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J. I. LODGE, B.A., <i>Instructor in Physics</i>	50 Wellington Street
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<i>Clinical Assistant in Medicine</i>	176 Johnson Street
F. J. O'CONNOR, M.D., C.M.,	
<i>Assistant Professor of Obstetrics</i>	193 Earl Street
F. X. O'CONNOR, M.D.,C.M.,	
<i>Clinical Assistant in Ophthalmology and Oto-laryngology</i>	263½ King Street
MAURICE J. O'CONNOR, M.D.,C.M.,	
<i>Clinical Assistant in Psychiatry</i>	197 Victoria Street
JOHN H. ORR, M.D.,C.M., F.R.C.P.(C),	
<i>Professor of Bacteriology and Secretary of the Faculty,</i>	
	529 Johnson Street
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<i>Lecturer in Medical Jurisprudence</i>	89 Clarence Street
G. B. REED, O.B.E., M.A., B.Sc., Ph.D.(Harvard), F.R.S.C.,	
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<i>Professor of Obstetrics and Gynaecology</i>	
	315 King Street West
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<i>Professor of Physics</i>	105 Albert Street
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<i>Instructor in Physical Training</i>	229 Nelson Street.
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<i>Lecturer in Physiology</i>	142 Albert Street

G. D. SCOTT, M.D.,C.M.,	<i>Clinical Assistant in Medicine</i>	87 King Street East
R. G. SINCLAIR, B.A., Ph.D.(Rochester), F.R.S.C.,	<i>The Craine Professor of Biochemistry</i>	Collins Bay
M. W. M. SLOANE, M.D.,C.M., M.S.(Michigan),	<i>Assistant Professor of Anatomy</i>	106 Wellington Street
W. M. SMITH, B.Sc., Ph.D.,	<i>Assistant Professor of Chemistry</i>	132 University Avenue
H. D. STEELE, M.D.,C.M.,	<i>Surgical Registrar</i>	Kingston General Hospital
J. S. STEWART, M.D.,C.M.,	<i>Lecturer in Psychiatry</i>	Ontario Hospital.
J. T. TWEDDELL, M.D.,C.M.,	<i>Lecturer in Medicine, Assistant Curator of Pathological Museum</i>	113 Wellington Street
T. N. TWEDDELL, M.D.,C.M.,	<i>Clinical Assistant in Surgical Pathology, Assistant Curator of Pathological Museum</i>	287 Victoria Street
E. P. WHITE, M.D.,C.M., F.R.C.S.(Edin.)	<i>Clinical Assistant in Urology</i>	221 King Street East
JOHN WYLLIE, M.A., M.D., B.Sc.(Glasgow), D.P.H.(Camb.),	<i>The Arthur R. Elliott Professor of Public Health and Preventive Medicine</i>	53 Kensington Avenue

EQUIPMENT AND SPECIAL FACILITIES

THE MEDICAL BUILDINGS

The Old Medical Building, erected in 1858, was destroyed by fire in August, 1924. It has been replaced by a fire-proof structure which houses the departments of Anatomy and Preventive Medicine.

In the Medical Laboratories building are conducted the courses in Bacteriology, Embryology, Histology, and Physiology.

The department of Pathology is housed in the Richardson Laboratory, attached to the Clinic building, General Hospital.

The Craine Building houses the three departments of Biochemistry, Pharmacology, and Obstetrics.

THE LABORATORIES

THE BIOLOGICAL LABORATORIES

The classes in the Department of Biology are conducted in new quarters in the Old Arts building. The laboratories are provided with the supplies and equipment necessary for the study of plant and animal life and are provided with a separate locker for each student.

The laboratories in Bacteriology are situated on the second and third floors of the Medical Laboratories building; that for Experimental Physiology occupies the west side of the second floor of the building and has all appliances necessary for 50 students working at one time. The work in Histology and Embryology is conducted on the west side of the first floor, where there is accommodation for 120 students.

THE CHEMICAL LABORATORIES

The Chemical Laboratories are in Gordon Hall. On the fourth floor are the laboratories of Medical Organic and Water Analysis. On the third floor are two laboratories for General Chemistry, and a laboratory for Electrochemistry and Colloid Chemistry. On the second or main floor are two laboratories for Quantitative Analysis, two for Organic Chemistry, and one for Industrial Chemistry. On the first or basement floor are three laboratories for Qualitative Analysis, and two for Physical Chemistry. Besides these there are a number of small separate laboratories for research work. The Biochemistry laboratory is in the Craine Building.

THE PHYSICAL LABORATORIES

The Physics Laboratories occupy the major part of Ontario Hall. The basement contains the large elementary laboratory, the liquid air room, numerous research laboratories and the research workshop. The main floor is given over to undergraduate lecture and laboratory rooms. The second floor has two large lecture rooms, laboratory room for advanced undergraduate classes and for research. The attic is used for workshop and storage purposes.

THE HOSPITALS

The General Hospital is the centre for clinical teaching and all members of its staff are nominated by the Medical Faculty. The Douglas Building houses the Public Wards, Operating Theatres, X-ray, Radio-therapy and Electro-therapeutic departments and various outpatient services. The Nickle Wing is occupied by the Obstetrical department and the Doran Wing is the Children's Hospital. The Isolation Hospital forms part of the General Hospital group and is under its administration. Sixty-four patients can be accommodated and at present one-half of the available accommodation is set aside for Tuberculosis. This Hospital affords full opportunity for clinical teaching in infectious diseases including Tuberculosis.

In the Hotel Dieu Hospital certain public wards are used for clinical teaching by members of its staff nominated by the Medical Faculty.

The Ontario Hospital for Mental Diseases is open for clinical instruction. Its staff are responsible for the teaching of mental diseases. Its large population affords much material for medical, surgical, gynaecological and pathological teaching by members of staff of the Medical Faculty.

Internships in the above hospitals are available to members of the final year on graduation. Applications should be made directly to the superintendent of the hospital concerned.

ONTARIO CANCER FOUNDATION, KINGSTON CLINIC

The Ontario Cancer Foundation, Kingston Clinic for the Diagnosis and Treatment of Cancer and Allied Diseases, is operated by the Ontario Cancer Foundation, which was established by the Ontario Government in 1943. The funds of the Foundation were supplied partly by the Provincial Government but the greatest amount came from public subscription. It is situated in the ground floor, Victory Wing of the Kingston General Hospital. The Clinic Staff, who are employed part time, are Officers of Instruction of the Medical Faculty of the University. The policy of the Foundation is to encourage the use of this clinic for the teaching of the students at Queen's University.

While this is not a free clinic, the assistance through public subscription has made it possible to carry on the work at a much less charge to the patient than would ordinarily be the case, and if conditions warrant it no charge is made.

Facilities for treatment include all branches of surgery. This work is done for the most part in the Kingston General Hospital. For irradiation therapy there are available 590 mgms. radium, radon from the Ontario Department of Health and x-ray therapy with 100 K.V., 200 K.V. and 400 K.V. All types of radiotherapy are carried out in the Clinic.

THE LIBRARY

The Douglas Library building provides a large reading room, an art room and a reserve book room. It also houses the Lorne Pierce Collection, the McNicol Collection of material on telegraphy, etc., and a large collection of maps.

In the reading room about 5,000 volumes of general reference works are on open shelves. The main collection on five tiers of book stacks occupies the centre of the building. The total number of volumes in the central and departmental libraries is in excess of 200,000.

The system of classification used is that of the library of Congress.

In addition to the general library (there are departmental libraries for physics, chemistry, mining and metallurgy; geology and mineralogy; civil, mechanical and electrical engineering; clinical medicine; biology; ophthalmology; pathology).

The Lorne Pierce Collection of Canadian Literature is very rich in first editions, original manuscripts and rare Canadiana. A catalogue is in course of publication.

The Shortt-Haydon Collection of portraits and views relating to Canada is one of the finest collections of its kind.

The library of the Medical Faculty is now located in the Old Arts Building, and has its own reading room. It is administered by the staff of the general library.

The John Franklin Kidd Endowment provides for an annual fund for the purchase of books in the department of Surgery. These volumes are marked by a special book plate and form a valuable section of the Library gradually increasing in importance.

THE MUSIC ROOM

The Music Room in the Douglas Library is ideally furnished and equipped for music study and listening. It houses the Carnegie collection of more than a thousand gramophone records, and a number of musical scores and books which are available on loan through the usual library facilities. The equipment also includes a Steinway grand pianoforte, a radio-phonograph, and a high-fidelity phonograph with separate loud-speaker console. The room is open every afternoon during the session, including Saturday and Sunday.

THE UNIVERSITY CONCERT SERIES

The University Concert Series is available to students for \$3 for the season. The programme for session 1946-47 was as follows: the Trapp Family; Luboshutz and Nemenoff, Pianists; Garbusova, Cellist; and the Baltimore Symphony Orchestra.

The series for 1947-48 includes Mack Harrel, Baritone; Joseph Szigeti, Violinist; Nikita Magaloff, Pianist; and the Baltimore Symphony Orchestra.

In addition there is The Young Artists' Series including the Conservatory String Quartette; Pincusoff and Pizzolongo, Clarinetist and Pianist; the Winner of the Singing Stars of Tomorrow Contest. The cost of The Young Artists' Series is 50 cents for students, \$1.00 for other subscribers.

GENERAL INFORMATION

ADMISSION OF STUDENTS

The number of students admitted to the classes of the first year is limited and prospective matriculants should make formal application for admission on forms obtainable from the Secretary of the Faculty. These applications should be in the hands of the Secretary not later than August 16th. Applicants will be notified of the decision of the Committee on Admissions as soon as possible after that date. Only under special circumstances will applications be considered *after* August 16th.

Matriculation requirements must be completed before an application can be considered.

All Ontario candidates for admission must satisfy the following Matriculation requirements:

(1) Ontario Secondary School Graduation Diploma (Pass Matriculation).

(2) Ontario Grade XIII (Honour Matriculation).

A minimum of eight papers, including the following:

English (Literature and Composition).

Mathematics (two of Algebra, Geometry, Trigonometry).

Language—one of:

Latin (Authors and Composition).

Greek (Authors and Composition).

French (Authors and Composition).

German (Authors and Composition).

Italian (Authors and Composition).

Spanish (Authors and Composition).

Chemistry (one paper).

Physics (one paper).

Ex-service men will be eligible for admission to first year Medicine with the following standing:

1. *General education—minimum:*

Senior Matriculation in English

Junior Matriculation in another language (Latin advised) and in History; or, alternatively, Senior Matriculation in either of these two subjects.

2. *Pre-requisites for later work:*

Senior Matriculation in Mathematics (two of Algebra, Geometry, Trigonometry), in Physics and in Chemistry.

A student may offer in substitution for Grade XIII first year work in the above subjects in the Faculty of Arts, provided that he holds a Secondary School Graduation Diploma. A six-year medical course must follow such registration.

The Faculty of Medicine limits first year registration to forty-five students. A selection from applicants for admission will be made on the basis of their qualifications.

A candidate entering with Grade XIII who, in the course of two years in a Faculty of Arts, has obtained credit for Physics 1, Biology 1 and 16, Chemistry 1, 2, 10 and 12, may be admitted to the second year of Medicine. The course in Medicine may thus be completed in five years instead of six.

Candidates from Provinces of Canada other than Ontario must present certificates of a standard equivalent to that required for students from the Province of Ontario.

Intending students are reminded that a University degree in Medicine does not in itself confer the right to practise the profession of medicine. In each Province of Canada and in each one of the United States the right of licensure is vested in a Licensing Body which has its special laws and requirements. In many cases a special standard of general education is insisted upon before beginning the study of medicine. In order that disappointment and loss of time may be avoided, the University requires students to register with the licensing body of their home Province or State before beginning their medical course.

Full information as to the requirements for registration in the various provinces may be obtained from the Registrars of the Provincial Medical Boards (see pages 53, 54).

Prospective matriculants must submit with their applications for admission the certificates on which they claim standing.

Certificates of Matriculation in any University may be accepted *pro tanto* at the discretion of the Faculty.

VACCINATION

Candidates for admission to all faculties must submit a certificate of successful vaccination with application.

MATRICULATION EXAMINATIONS

The Matriculation examinations are conducted for the Universities of Ontario by the University Matriculation Board. They are held in

June of each year at the Universities and at each High School and Collegiate Institute in Ontario and at such other centres as may be approved by the Board.

The Secretary of the University Matriculation Board, J. P. Cowles, Esq., Parliament Buildings, Toronto, will furnish, on request, the official circular which contains full information concerning dates, fees, standards, curriculum, and examination centres. The University also publishes an announcement containing all particulars regarding Matriculation, which may be obtained from the Registrar of the University.

REGISTRATION

Students should register on the day set for such registration in the diary on page 5.

FRATERNITIES

By resolution of Senate no student registered with the University may form or become a member of any chapter of an externally-affiliated fraternity or sorority at or near Kingston.

CURRICULUM

Candidates for the degrees of M.D.,C.M. must complete a period of six years' study. Students entering before September, 1944 are enrolled in the course comprised of six intramural sessions of eight months each. Those entering in September, 1947, will register in the new course, consisting of five intramural sessions and one clinical year to be spent in a hospital designated by the University.

Attendance on full courses of instruction is required in the following subjects of study:

1st Year (new course):—General Biology, General Chemistry, Organic Chemistry, Physics, English.

2nd Year (new course):—Anatomy, Biochemistry, Histology, Embryology, Physics, Psychology.

3rd Year (new course):—Anatomy, Physiology, Pharmacology, Bacteriology, Psychopathology, Medical Statistics.

4th Year (new course):—Pathology, Pharmacology, Surgical Anatomy, Surgery, Medicine, Preventive Medicine, Psychopathology, Jurisprudence, Radiology.

5th Year (old course):—Surgery, Medicine (including Therapeutics), Obstetrics and Gynaecology, Pathology, Eye, Ear, Nose and Throat, Pediatrics, Jurisprudence, Psychiatry, Radiology and Physical Therapy, Parasitology, Anæsthesiology, Urology, Preventive Medicine.

Certificates of attendance on lectures may be accepted from incorporated medical schools in the British Dominions and others recognized by British Universities and licensing bodies. Other certificates of attendance on lectures and examinations may be accepted at the discretion of the Faculty.

EXAMINATIONS AND GRADUATION

Students in the first three years must attend a minimum of 90 per cent., and students in other years a minimum of 80 per cent., of the lectures and laboratory exercises in the subjects for which they are registered to be admitted to the final examinations in those subjects.

The Faculty may at any time either during the term or after the close of the term, require any student to withdraw from the Faculty of Medicine whose conduct, attendance, work or progress is deemed unsatisfactory.

The examination marks are arranged in the following grades: A=80 to 100%, B=70 to 79%, C=60 to 69%, D=under 60%, failure. A student must have obtained pass standing (60%) in all the examinations of any year before proceeding to the higher year. Pass standing may be obtained at the regular spring examinations, or at the supplemental examinations.

Supplementals

Permission to write supplemental examinations may be granted to any student who has failed in no more than 50% of the examinations of the first, second or third year, or in no more than three examinations of any succeeding year.

(a) Except in the case of the first year, a student who fails at the supplemental examinations will be permitted to repeat his year unless otherwise conditioned. No student will be permitted to repeat more than one year.

(b) A student of the third year who fails in more than 50% of the spring examinations, and of the fourth, fifth and sixth years who fails in more than three examinations may be permitted to repeat his year.

Withdrawal

(a) A student of the first or second year who fails in more than 50% of his spring examinations will be required to withdraw.

(b) A student of the third year who fails in more than 50% on the spring examinations and who has written a total of three or more supplementals in his first two years will be required to withdraw.

(c) A student who repeats his year and fails will be required to withdraw.

(d) A student who has successfully repeated a year, but fails to get his standing in any subsequent year, will be required to withdraw.

A candidate will not be admitted to an examination unless he has paid all University fees.

EXAMINATIONS

Examinations are required at the end of every session as follows:

At the end of the first session (new course) :—

General Biology, General Chemistry, Organic Chemistry, Physics, English.

At the end of the second session (new course) :—

Anatomy, Biochemistry, Physics, Histology, Embryology, Psychology.

At the end of the third session new course:—

Anatomy, Physiology, Pharmacology, Bacteriology, Psychopathology, Medical Statistics.

At the end of the fourth session (new course) :—

Pathology, Pharmacology (including Materia Medica), Applied Anatomy, Surgery, Medicine, Preventive Medicine, Psychopathology, Jurisprudence, Radiology.

At the end of the fifth session (old course) :—

Surgery, Medicine, Obstetrics and Gynaecology, Pathology, Pediatrics, Eye, Ear, Nose and Throat, Jurisprudence, Psychiatry, Radiology, Parasitology, Anæsthesiology, Preventive Medicine, Urology.

EQUIVALENT EXAMINATIONS

The following courses and examinations in Arts will be accepted in Medicine:—

ARTS

1. Courses and examinations in Biology 1 and 16.
2. Courses and examinations in Chemistry 1, 2, 10 and 12.
3. Course and examination in Physics 2.

MEDICINE

1. Course and examination in first year General Biology.
2. Courses and examinations in first year Chemistry.
3. Attendance on Lectures until Christmas, in second year Physics.

The courses in Chemistry and Physics must be taken in the University; the classes will not be allowed to holders of certificates of Honour Matriculation.

FEES

FIRST YEAR

Sessional fee (including Registration, Tuition, Examinations, Library, Laboratory fees, and Degree fee)	\$ 200.00
Student interests (including Health Insurance, Athletics, Alma Mater Society, "Queen's Journal", Aesculapian Society, and Union)	23.00
Sessional Laboratory Deposit	20.00

SECOND, THIRD, FOURTH AND FIFTH YEARS

Sessional fee (including Registration, Tuition, Examinations, Library, Laboratory fees, Degree fee and Student interests)	245.00
Sessional Laboratory deposit (each year)	10.00
Special Fees, payable when incurred:	
Late Registration	3.00
Supplemental examination in one subject	10.00
Each additional subject	2.00
Degree of Master of Science in Medicine (see p. 41).	
Diploma of Public Health (see p. 41).	
Diploma in Medical Radiology (see p. 42)	
Extra Fee for Degree in Absentia	10.00
Pro tanto fee	10.00

Remit funds by accepted cheque, postal order, or bank draft, payable to Queen's University. Cheques or bank drafts on any point where there is a branch of the Bank of Montreal will be received at par; all other cheques should have $\frac{1}{8}$ of 1%, minimum 15c, added to cover exchange, or drawn plus exchange.

Payment of Fees

In the case of the First Year fees may be paid in two equal instalments, in which case an additional \$5.00 will be added to the first

instalment. This first instalment and the laboratory deposit must be paid at the time of registration, and the balance paid on or before January 6th, 1947. No student will be admitted to classes until the above conditions have been complied with, nor will he be permitted to continue the work of the second term until the fees have been paid in full.

In the case of other years, fees may be paid according to one of the following three plans:

- (1) In full during the first week.
- (2) On payment of an additional \$5.00, in two halves, the first payment including the \$5.00 to be made during the first week, and the second by the beginning of the second term.
- (3) Those who find it impossible to comply with either of the above plans may make special arrangements direct with the Treasurer.

BOARD AND ROOM

During the session 1946-47 students have paid from \$6.50 to \$7.00 a week for board, and \$3.50 to \$4.00 for room, so that satisfactory board and lodging may be obtained at from \$10.00 to \$11.00 per week. Lists of boarding and lodging houses may be obtained from the Housing Office.

MICROSCOPES

Every student entering the Faculty of Medicine will be required to have, at the commencement of his studies, a first-class microscope of approved design. Such an instrument is an essential part of the equipment of a practitioner of medicine.

The Faculty of Medicine have made arrangements whereby such instruments can be purchased at a low price, either for cash at cost or by three equal annual payments which include carrying charges. In

the latter case the microscope is retained by the University during vacations until payment is completed. In recent years the cost for outright purchase has been approximately \$200.00.

Further information regarding the microscopes and methods of payment may be obtained from the Secretary of the Faculty of Medicine.

PHYSICAL WELFARE OF STUDENTS

All students admitted must produce evidence of successful vaccination.

Every student is required upon registration to contribute \$4 towards a health insurance fund. In return the student has the free services of the University Medical Officer and a special Hospital rate of 50 cents a day. Details of the plan are given in a printed leaflet which may be had on request.

Each first year student is given a physical examination by the University physician, and corrective exercises in the Gymnasium are prescribed when they are needed. Gymnasium work for two hours each week is required of all first year students unless excused by the Medical Officer or on account of military training.

TUBERCULIN TESTS

Tuberculin tests will be given to all students entering Queen's University for the first time. This service will be free of charge but those who react positively must have an X-ray examination at their own cost.

ATHLETICS

As a member of the Canadian Intercollegiate Athletic Union, Queen's gives every opportunity for students to compete in intercollegiate athletics on some of the many teams representing the University, while the student who is unable to find a place on a University team has the chance to play in inter-year and inter-faculty games.

Each student pays an Athletic Fee of \$5.00, which is collected with the sessional fee and paid to the Athletic Board of Control, by whom all athletic activities, the rink, the playing fields and the gymnasium are controlled.

During the summer of 1921, through the generosity of the late Dr. James Richardson, of Winnipeg, a graduate in Arts and formerly Chancellor of the University, the George Richardson Memorial Stadium was built on the Union Street Campus. The grand stand and bleachers accommodate about 7,000 spectators.

The Jock Harty Arena, built in 1921, was destroyed by fire in the spring of 1924. It was rebuilt on the same site during the summer, and is equipped with an artificial ice plant.

STUDENT ADVISERS

In order to assist students in general methods of study and in the solution of personal and class problems, a student adviser has been appointed for the first year.

Adviser for the year 1947-48—Professor J. K. Robertson.

THE ALMA MATER SOCIETY

Queen's was the first University in Canada to introduce Student Government. All students are members of the Alma Mater Society, the chief instrument of student government, and are expected to share in its duties and responsibilities.

ALMA MATER SOCIETY LECTURE

In 1939, as a contribution from the student body to the Centenary Endowment Fund, the Alma Mater Society gave the University its accumulated reserve of \$1,711. The income will be used to provide an annual lecture to be known as the Alma Mater Society Lecture.

THE AESCULAPIAN SOCIETY

All students registered in the Faculty of Medicine are members of the Aesculapian Society, and amenable to its rules and regulations.

Office Bearers

Honorary President	Dr. John Wyllie
President	W. C. Wedlock
Vice-President	J. S. McAuley
Secretary	G. J. Mack
Assistant Secretary	L. E. Ross
Treasurer	L. C. Guest
Athletic Stick	D. T. Smylie
Senior A.M.S. Representative	K. G. Phin
Junior A.M.S. Representative	S. Segal
C.A.M.S.I. Representative	Helen L. Martin
Permanent Secretary-Treasurer	Dr. Eldon M. Boyd

MILITARY SERVICES

UNIVERSITY NAVAL TRAINING DIVISION

The University Naval Training Division, Queen's University, was organized in March 1943, under the direction of Lieutenant S. T. Hill, Commanding Officer H.M.C.S. "Cataraqui".

A minimum of 110 hours' training will be given during the academic year, and two weeks' spring training in H.M.C.S. "Cornwallis" or H.M.C.S. "Naden" at the end of the academic year.

Under-graduates in science or non-science courses will be enrolled as ratings on Divisional Strength. Students in mechanical, electrical engineering and engineering physics courses will be enrolled as Stok-

ers II. Students in other University courses, except Medicine, will be enrolled as Ordinary Seamen. Students who fail to pass the medical examination for Ordinary Seamen may be considered for other rates still being recruited.

CANADIAN OFFICERS' TRAINING CORPS

The Queen's University Contingent of the C.O.T.C., formed at the outbreak of the last war under Lieutenant-Colonel A. B. Cunningham, was organized as a Unit of the Militia in February, 1915. Reorganized after the war by Colonel A. Macphail, C.M.G., D.S.O., it is now commanded by Lieut.-Col. E. A. Walker.

Basic military training is provided for students in all faculties of the University.

AMERICAN LEGION SCHOLARSHIP

Value \$100. Established by Dr. George Hayunga of New York.

To be awarded annually to a student officer of the Queen's University Contingent of the Canadian Officers' Training Corps, the selection to be made by the Joint Services University Training Committee from a group nominated by the Commanding Officer. In determining the award academic standing will be taken into consideration.

C.O.T.C. SCHOLARSHIP

Value \$100. Maintained by the regimental funds of the Queen's University Contingent of the Canadian Officers' Training Corps. To be awarded annually to a member of the Contingent who is not an officer. The selection will be made by the Joint Services University Training Committee from a group recommended by the Commanding Officer. In determining the award academic standing will be taken into consideration.

HIGHER DEGREES

A standing committee on Medical graduate studies consisting of the Principal, the Dean, the Secretary and four members of the staff of the Medical Faculty shall consider all applications for graduate degrees in Medicine and shall report to the University Committee on Graduate Studies on the fitness of the candidate to enter a graduate course and recommend to the above Committee the prescribed programme of work.

THE DEGREE OF MASTER OF SCIENCE IN MEDICINE

Prerequisite: A candidate for the degree of M.Sc. (Med.) must have taken the degree of M.D. with a minimum standing of 75% in his special subjects and an average of 70% in the last three years of his Medical course. A candidate who does not meet this require-

ment may be accepted only by special permission of the Medical Faculty.

A candidate in full time employment in the University or elsewhere will not normally be admitted to the M.Sc. (Med.) course.

Application: Application for admission to the M.Sc. (Med.) course must be made to the Registrar of the University in writing at least three weeks before the opening of the session. Candidates, if not graduates of Queen's University, must send official certificates giving full details of their academic training. An outline of proposed studies, based upon the requirements described below, must accompany the application.

Curriculum: The course consists of two parts as follows:

(1) Research and thesis, representing not less than half the session's work. Except by special permission the thesis must be submitted by May 1st for a degree in the Spring and by September 20th for a degree in the Fall.

(2) Lectures or reading, laboratory or clinical work cognate to that of the field of study. Ordinarily half of this cognate work will be done in the department in which the candidate is carrying out his research, and the other half in one or more other departments not necessarily in the Medical Faculty.

Examinations: The candidate will be required to take the following examinations:

(1) Two written examinations—one in each half of the cognate work referred to in part 2 under Curriculum. The candidate must obtain at least seventy-five per cent in examinations taken in the Faculty of Medicine and at least second class honours in examinations taken in the Faculties of Arts or Applied Science.

(2) An oral examination in the field of the candidate's research by a committee of at least four appointed by the University Committee on Graduate Studies. Not more than two members of the committee may be chosen from the department concerned.

Previous to the oral examination the thesis submitted by the candidate must have been read and approved by this committee.

Residence: A candidate for the degree of M.Sc.(Med.) must do all of his work (towards this degree) in residence at the University, during at least one session.

Fees: The annual fees are as follows: Sessional fee, \$120.00; Student Interests, including membership in the Aesculapian Society, \$23.00; a laboratory deposit of \$10.00. The degree fee is \$20.00 to be paid by April 1st.

Teaching Assistance: Candidates for the degree of M.Sc.(Med.) may give not more than 10 hours per week during the academic year to assisting members of the Faculty in teaching or in other academic or clinical duties, providing that the time so lost is made up by work on their problem of research during the summer vacation or providing they extend their course over two academic years.

DIPLOMA OF PUBLIC HEALTH (D.P.H.)

For candidates proceeding to take this Diploma after graduation as M.D.

Candidates will be entitled to enter for examination for this Diploma on presenting certificates of having taken:

- (1) Three months' course in Sanitary Physics (principles of statics, pneumatics, hydraulics, light, photometry, heat, thermometry, hygrometry).
 - (2) Three months' course in Sanitary Chemistry, especially devoted to quantitative and qualitative analysis of air, water, and common foodstuffs; this course must include one week's work in practical testing of milk and milk products for adulteration or sophistication.
 - (3) Three months' course in a Bacteriological Laboratory devoted to bacteriological aspects of Public Health work, such as examination of sputum, blood, swabs, water and milk, and the detection of common animal parasites.
 - (4) Three months' course in advanced Hygiene, covering especially a discussion of sewage and garbage disposal, water supplies, disinfection, transmissible diseases, vital statistics and sanitary legislation.
 - (5) Three months' course in Sanitary Engineering, including water services, sewerage systems, sewage and garbage disposal.
 - (6) Three months' attendance and clinical instruction in a Hospital for Infectious Diseases.
 - (7) Six months with a recognized Medical Officer of Health in the study of Practical Sanitation.
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DIPLOMA IN MEDICAL RADIOLOGY (D.M.R.)

The Faculty of Medicine, Queen's University, has introduced a graduate course leading to a Diploma in Medical Radiology.

Candidates for the Diploma must

- (1) be graduates of a Medical School recognized by the Senate,
- (2) have spent at least one year after graduation as an interne in a recognized hospital or have had two years' experience in general practice.

The curriculum leading to the Diploma extends over

- (A) one academic session at the University,
- (B) two terms of eleven months each of service and training in a recognized Radiological Department.

Not more than two candidates will be accepted in any one academic session at the University. The selection of candidates rests with a Board appointed by the Medical Faculty.

The following courses will be provided:—

PART I

1. Anatomy (radiographic)
2. Pathology
3. Radio-biology.
4. Radio-physics.
5. Radiographic Technique.

These subjects will be given during the academic session.

PART II

6. Diagnostic Radiology
7. Radio-therapy.
8. General Medicine and Surgery.

Study of these subjects is spread over the three terms.

Examinations:

Part I. An examination will be held at the end of each academic session.

Part II. After passing the examination in Part I and having fulfilled the conditions of curriculum laid down in (B) above.

Candidates who have passed the examinations will be granted the Diploma in Medical Radiology (D.M.R.).

Fees. The fee for the Diploma is \$150.00. In addition, candidates undertaking Parts I and II at the University, are charged a fee of \$100.00 payable to the Kingston General Hospital to cover expenses involved.

Further information as to details of the courses may be obtained on application to the Secretary of Faculty.

SCHOLARSHIPS AND HONOURS

The following scholarships and honours are awarded to students in the Faculty of Medicine. The scholarships, except those awarded in the final year, are tenable only by students in residence in the session following the award. Students may not hold scholarships unless they have successfully completed the work of the year in which they are enrolled.

THE ROBERT BRUCE SCHOLARSHIP

The Robert Bruce Scholarship of about \$70 awarded at the end of the first year to the student of Scottish extraction making the highest number of marks in the examinations of that year. One-third of the value of the Scholarship will be paid to the winner in each of the second, third, and fourth years of his course, provided he is in attendance in the Faculty in which the award was made.

This Scholarship has been established under provisions in the will of the late Robert Bruce of Quebec, and similar scholarships are awarded in the Faculties of Arts and Science.

THE ALEXANDER MACLACHLAN PEACE PRIZE, \$30

The Alexander MacLachlan Peace Prize has been established by the MacLachlan family in memory of Alexander MacLachlan, former President of International College, Smyrna, who throughout his life worked for a better understanding among nations.

Value \$30. Awarded annually for the best essay of 3,000 words on the subject *Promotion of Enduring World Peace*. The prize is open to all undergraduates of Queen's University, both intramural and extra-mural. The essay must be clearly written or typewritten, and must be sent in to the Registrar's Office on or before March 1st, accompanied by a statement signed by the candidate that the essay is the result of his own reading, thinking, and discussion and that he has not been assisted by other students in writing it.

SOCIAL ENGINEERING PRIZE

Value \$50. Founded by A. E. MacRae of Ottawa. Awarded annually under the following conditions as stated by the donor.

"The object of this prize is to promote on the part of the individual the practice of factually appraising his every act from the point of view of others concerned so that he may make it easiest for them to co-operate in achieving a desired objective. It is based on the idea that maximum social progress primarily demands of education the production in individuals of capacity to lead others in the doing of things which, in the long view, are for the continuing good of all. A keen

sense of responsibility for the common good, as opposed to the mere temporary benefit of a particular agency, is essential in efficient social leadership.

"It is to be presented annually to the student in attendance at Queen's University who, prior to the beginning of his or her graduating year, has developed and exhibited greatest capacity in leading the student body, or any portion of it, in accomplishing purposes which are considered good by the majority of the student body.

"The recipient shall be selected by a committee consisting of the presidents of the faculty societies and the Levana Society and the Principal of the University or his nominee."

KHAKI UNIVERSITY AND Y.M.C.A. MEMORIAL FUND

This fund is part of a sum, left from the Khaki University after the war of 1914-18, which was divided among the Canadian Universities.

The interest, amounting to \$240, will be used to award one or more scholarships open to undergraduate students in any Faculty. In awarding these scholarships the need as well as the standing of applicants will be considered and preference will be given to sons or daughters of soldiers of the Great War. Applications will be received by the Registrar up to April 1 of each year.

B'NAI B'RITH KINGSTON, BURSARY

Value \$50. Founded by the B'nai B'rith Lodge of Kingston. This Bursary will be awarded annually to a student of promising ability but straitened circumstances. The award will be made on the basis of the final examinations. Applications will be received by the Registrar up to April 1 of each year.

THE O. M. MONTGOMERY MEMORIAL FUND

Established by the Aluminum Company of Canada in memory of Mr. O. M. Montgomery, who graduated from Queen's University in Electrical Engineering in 1905. This Fund will be used to provide bursaries for worthy students in need of financial help. It will be administered by a Committee consisting of the Principal, the Vice-Principal, the Registrar, and a representative of the Aluminum Company. Awards may be made in any Faculty, and may only be regarded as gifts at the discretion of the Committee when made to sons or daughters of employees of the Aluminum Company. Otherwise repayment is expected in one or both of the following ways:

- (1) By service to the University if the beneficiary has time and is qualified for the work available. Such service shall be assistance in a department, or office, or library, or laboratory, or some other comparable employment.

- (2) By return in cash of the sum granted, or of the part not worked out. In such case the award is regarded as a loan without interest, payable at some convenient time to be agreed upon.

THE REUBEN WELLS LEONARD SCHOLARSHIPS

Under the will of the late Reuben Wells Leonard provision was made for the following Scholarships:

REUBEN WELLS LEONARD SPECIAL SCHOLARSHIPS

Special Reuben Wells Leonard Scholarships for merit and need will be awarded in varying amounts to students of promising ability but straitened circumstances. The awards will be made on a loan or service basis.

REUBEN WELLS LEONARD FELLOWSHIPS

Fellowships of varying amounts will be available during the session 1945-46 for Queen's graduates continuing their work at Queen's University. Application for these Fellowships will be received by the Registrar up to April 1st.

THE W. W. NEAR AND SUSAN NEAR SCHOLARSHIPS AND BURSARIES

Under the wills of the late W. W. Near and his widow, the late Susan Near, provision was made for the following scholarships and bursaries.

1. An annual scholarship of the value of \$80 will be awarded to the student with the highest standing in each of the first, second, third and fourth years.

2. An annual scholarship of the value of \$40 will be awarded to the student taking second place in each of the first, second, third and fourth years.

3. An annual scholarship of the value of \$50 will be awarded to the student taking second place in the fifth year.

These scholarships will be tenable only by students who are in attendance the year following the award.

4. An annual scholarship of the value of \$100 will be awarded to the sixth year student with the highest standing throughout his course.

5. An annual scholarship of the value of \$70 will be awarded to the sixth year student with the second highest standing throughout his course.

6. Three bursaries of the value of \$100 each will be awarded annually to students who in any year have shown an interest in and aptitude for practical work in a laboratory, and will undertake to carry

out work of a research nature in the laboratory during the year following the award.

Applications for these bursaries must be made to the Secretary of the Medical Faculty not later than April 1st of each year.

ROBERTA McCULLOCH SCHOLARSHIP IN ENGLISH

Founded by the late Andrew McCulloch, M.A., of Thorold.

Value \$40. Awarded annually to the student standing first in Medical English.

PIPE BAND SCHOLARSHIP

Value \$25. Maintained by the Queen's University Pipe Band. Awarded annually to the best piper among first year students in all faculties on the basis of a piping contest.

THE N. F. DUPUIS SCHOLARSHIP

The N. F. Dupuis Scholarship of \$50 awarded to the student making the highest number of marks in the examinations in Chemistry of the second year. The Scholarship was founded by the graduates as a mark of their appreciation of the long and effective services of the late Dr. N. F. Dupuis, Professor of Mathematics.

SYLVANUS JOY SCHOLARSHIP

A Scholarship of \$40 awarded for proficiency in *Materia Medica*.

THE D. T. SMITH PRIZE IN PHARMACOLOGY

A prize, value \$20, awarded to the student in the fourth year making the highest number of marks in Pharmacology.

THE VICTOR LYALL GOODWILL MEMORIAL SCHOLARSHIP IN INTERNAL MEDICINE

Value \$100. This Scholarship was founded in 1937 by Mrs. Florence M. Goodwill of Charlottetown, Prince Edward Island, in memory of her late husband Dr. Victor Lyall Goodwill. It will be awarded annually to a student at the end of his Fifth year in consideration of:—(1) his standing in written and clinical oral examinations of the session, (2) his capacity to examine patients as brought out by the written clinical histories of cases assigned to him during the session.

REUBEN WELLS LEONARD PENULTIMATE YEAR SCHOLARSHIPS

Under the will of the late Reuben Wells Leonard provision was made for one Scholarship of the value of \$300 and one of the value of \$200, to be awarded to the students obtaining highest and second highest standing respectively at the end of the penultimate year. The student must be in attendance in his final year.

THE DAVID EDWARD MUNDELL PRIZE

The David Edward Mundell Prize of \$40, awarded to the student making the highest aggregate marks in the Surgical Applied Anatomy final examinations of the fifth and sixth years.

THE DEAN FOWLER SCHOLARSHIP

The Dean Fowler Scholarship of \$40 awarded to the student making the highest number of marks in the examinations of the sixth year.

SIR JOHN C. SCHULTZ MEMORIAL SCHOLARSHIP

Value \$80. Founded by his widow in memory of the late Sir John C. Schultz, K.C.M.G., M.D., LL.D., F.R.S., a leader of the loyal settlers against Riel in the Rebellion of 1869-70, and later a Lieutenant Governor of Manitoba. The Scholarship is based on the combined results of the sessional examinations of the fourth and fifth years, and is awarded when the student is in actual attendance in his final year. It is open only to male students of British descent, and the holder must be of good Christian character, a total abstainer, and of satisfactory scholastic attainments. Preference will be given to non-smokers and to students who are planning to become medical missionaries. Applications will be received by the Secretary up to November 30th of each year.

THE VICTOR LYALL GOODWILL MEMORIAL PRIZE

Value \$100. This prize was founded in 1936 by Mrs. Florence M. Goodwill of Charlottetown, Prince Edward Island, in memory of her late husband Dr. Victor Lyall Goodwill. The award is made annually to the student who submits the best essay dealing with some aspect of Mental Health or Disease.

Essays submitted for this prize should be handed in not later than March 15th.

ONTARIO MEDICAL ASSOCIATION PRIZE IN PREVENTIVE MEDICINE

An annual prize of twenty-five dollars has been instituted in the class of Preventive Medicine by the Ontario Medical Association. The first award of the prize was made at the close of session 1931-32 to the student who gained the highest marks in the class examinations.

PROFESSOR'S PRIZE IN PREVENTIVE MEDICINE

A prize awarded to the student who is *proxime accessit* in the class.

THE EDGAR FORRESTER SCHOLARSHIP

Founded under the will of the late Edgar Forrester, B.A., M.D.

Value \$40. Awarded to the student making the highest number of marks in final year Medicine and Clinical Medicine, making the highest aggregate marks in Surgical Applied Anatomy.

THE HANNAH WASHBURN POLSON PRIZE

A prize of \$50.00, endowed by Dr. James A. Polson of New York, for proficiency in Clinical Diagnosis in Medicine, Surgery and Obstetrics. The award will be made to a student in the final year.

THE NEIL CURRIE POLSON MEMORIAL PRIZE

The Neil Currie Polson Memorial Prize of \$50, awarded to the student in final year Medicine judged by his teachers to be the best adapted to apply his training in practice.

PROFESSOR'S PRIZE IN SURGERY

A prize awarded to the student in the final year making the highest standing in Surgical Subjects.

PROFESSOR'S PRIZE IN OBSTETRICS AND GYNAECOLOGY

A prize awarded to the student in the final year making the highest standing in these subjects.

THE MYLKS MEDAL IN OBSTETRICS AND GYNAECOLOGY

Awarded to the student in final year Medicine who has had the best record in Obstetrics and Gynaecology during his course.

THE ISOBEL MCCONVILLE SCHOLARSHIP

Under the will of the late Dr. Isobel McConville provision was made for the following scholarships:

1. Value \$100. Awarded annually to the student in fifth year making the highest number of marks in Gynaecology.
2. Two scholarships—one of \$50, the other of \$25—available to students of the fourth year for the best and second best essays on any approved surgical subject.

GEORGE AND MARY LOUISE PATTON SCHOLARSHIP

Value \$80. Awarded annually to the student in the fourth year who in the opinion of the professors concerned shows the greatest aptitude in the clinical work of the year.

TORONTO BRANCH OF THE GENERAL ALUMNI SCHOLARSHIP

Value \$100. Given by the Toronto Branch of the General Alumni Association for a period of five years. Awarded to the student of the third year with the highest standing in Physiology and Bacteriology.

UNIVERSITY MEDALS

A University Medal awarded to the student making the highest number of marks in the examinations of the sixth year in Clinical Medicine, Pathology, Preventive Medicine, and Clinical Psychiatry.

A University Medal awarded to the student making the highest number of marks in the examinations of the sixth year in Clinical Surgery, Surgery, and Eye, Ear, Nose and Throat.

The following awards are not endowed and are made only if the money is available:—

THE BERNARD THOMAS MCGHIE MEMORIAL SCHOLARSHIP

The Bernard Thomas McGhie Memorial Scholarship of \$100 awarded to a student in the fifth year on the basis of his academic standing, interest and aptitude in the study of Psychiatry and Psychosomatic Medicine. This Scholarship was established by the Government of Ontario in memory of Dr. B. T. McGhie, Deputy Minister of Health and Hospitals, who during his lifetime made such an outstanding contribution in the fields of Psychiatry, Public Health and Hospital Administration.

THE HELEN E. DWYER MEMORIAL SCHOLARSHIP

A scholarship of \$50 presented by Dr. James G. Dwyer of New York, awarded to the student making the highest number of marks in the courses in Embryology and Histology of the second year.

THE BOAK PRIZE

The Boak Prize in Anatomy, value \$25, donated by Dr. Eric W. Boak, of Victoria, B.C., awarded to the student making the highest number of marks in the written and oral examinations in Anatomy of the third year.

THE JOHN FRANKLIN KIDD ESSAY PRIZES

The John Franklin Kidd Essay Prizes, the gift of Mrs. Kidd of Ottawa, one of \$100 and one of \$50, available to members of the fourth, fifth and sixth years for the best essays on a surgical topic.

Essays for these prizes should be submitted not later than March 15.

CANADIAN NATIONAL COMMITTEE FOR MENTAL HYGIENE PRIZE

A prize of \$50 awarded by the Canadian National Committee for Mental Hygiene to the student making the highest marks in Psychiatry.

RICHARDSON FELLOW IN PATHOLOGY—GENERAL HOSPITAL

On the foundation of this Fellowship in 1927, Alice F. Richardson undertook to maintain the annual salary of a clinical Pathologist to the Hospital for a period of five years. Mrs. Richardson died in 1931, but has made provision for the maintenance of the Fellowship. Appointment is open to graduates, preference being given to those who have previously served as Internes or taken special training in Pathology.

Salary, \$50 per month, with rooms and board in Hospital. Appointments may be held for one or more years at the discretion of the Committee. The appointee will have the status of a senior interne in Hospital, and outlining of duties will be under control of a Committee consisting of the Professors of Medicine, Surgery and Pathology.

EXHIBITION OF 1851—SCIENCE RESEARCH SCHOLARSHIP

This scholarship of the annual value of £250 stg., is awarded by Her Majesty's Commissioners for the Exhibition of 1851 to students who have given evidence of capacity for original research, and are under 26 years of age. A given number of scholarships are awarded annually to students in Canada, recommended by the universities approved by the Commissioners.

The nominee must be a British subject, must have been a *bona fide* student of science for three years, must have been a student of the University for a full year immediately before his nomination, must be a student of the University at the time of his nomination, and must pledge himself not to hold any position of emolument whilst holding the scholarship without special permission from the Commissioners. He is recommended to the Commissioners by the Senate of the University. The scholarship will be tenable ordinarily for two years, and in cases of exceptional merit, for three years. The scholar will in the absence of special circumstances be required to proceed to a country other than that in which he received his scientific training and there pursue some investigation likely to promote technical industries or scientific culture. The particular investigation the student proposes to pursue must be stated before a scholarship can be awarded.

THE GEORGE CHRISTIAN HOFFMAN FELLOWSHIPS

The Alpha Fellowship for Pathological Research of \$800 and the Beta Fellowship for extended studies in Surgery of \$600 awarded to recent graduates nominated by the Faculty and approved by the Senate of the University. The awards will be determined by the undergraduate record of the candidates and upon evidence of capacity for original research. Applications for these Fellowships should be made to the Secretary of the Faculty not later than the first of March in each year.

The applicant must give detailed information regarding his experience since graduation and indicate definitely the work which he plans to do while holding the Fellowship and the institutions in which this work will be carried out.

The holders of the Fellowships shall proceed to some Institution or University in Europe or the United States of America, approved by the Senate of the University, where post-graduate study and research may most advantageously be pursued. The Fellowships may be tenable for a second or even a third year, upon the recommendation of the Faculty.

The George Christian Hoffman Fellowships have been awarded as follows:

In Pathology:—1937, John Clinton White, M.D., C.M. (1930).

1938, Leslie Sparling Jolliffe, M.D., C.M. (1936).

1939, Edward Douglas Rooke, M.D., C.M. (1937).

1940, James Stuart Young, B.A., M.D., C.M. (1938).

In Surgery:—1937, Robert Randolph Mutrie, M.D., C.M. (1934).

1938, Edwin Perry White, M.D., C.M. (1934).

1939, Thomas Neil Tweddell, M.D., C.M. (1936).

1940, Osler Briggs Dickinson, M.D., C.M. (1935).

1947, William James Spencer Melvin, B.A.,
M.D., C.M. (1943).

Since 1940 no awards have been made in Pathology.

The list of awards in earlier years will be found in the 1941-42 Calendar.

WILLIAM SPANKIE MEMORIAL MEDICAL RESEARCH ENDOWMENT FUND

The late Dr. William Spankie provided in his Will for a fund "to promote Medical Research at Queen's University under rules and regulations to be determined by the Board of Trustees and approved by the Executors and Trustees of the Estate."

The present income is \$400 a year.

The research must be carried on at Queen's University or in one of the City Hospitals associated with it.

Reports upon research problems assisted by the fund must be submitted to the Committee of Administration.

All applications for grants should be addressed to the Principal.

REQUIREMENTS FOR LICENCE

Kingston is a centre for the Examinations of the Medical Council of Canada. The written examinations are held in one of the University buildings, and the clinical examinations in the General Hospital.

DOMINION OF CANADA

A University Degree does not give the right to practise the profession of Medicine. It is also necessary to conform with the laws pertaining to the practice of Medicine in the province, state or country in which it is proposed to begin practice. The Medical Council of Canada issues a diploma which is accepted for registration in any province of the Dominion.

In order to qualify for the examination of the Medical Council of Canada, the candidate must hold the licence of a Provincial Board, or present a certificate from the Registrar of a Provincial Medical Council that he holds a medical degree from an approved Medical College. The announcement of the Medical Council of Canada may be obtained from Dr. J. Fenton Argue, Registrar, 180 Metcalfe Street, Ottawa.

Each province in Canada has a special standard of medical education and special requirements for licence. Detailed information as to qualifications for the practice of Medicine in the various provinces may be obtained from the Provincial Registrars, as follows:

Alberta: DR. W. BRAMLEY-MOORE, 207 Alexandra Block, Edmonton.

British Columbia: DR. A. J. MACLACHLAN, 203 Medical Dental Building, Vancouver.

Manitoba: DR. W. G. CAMPBELL, 605 Medical Arts Building, Winnipeg.

New Brunswick: DR. JOHN M. BARRY, 182 Princess Street, Saint John, N.B.

Nova Scotia: DR. H. L. SCAMMELL, Provincial Medical Board of Nova Scotia, 196 Atlantic Street, Halifax.

Ontario: DR. ROBERT T. NOBLE, 566 University Ave., Toronto.

Prince Edward Island: DR. I. J. YEO, 193 Prince St., Charlottetown.

Saskatchewan: DR. G. GORDON FERGUSON, 415 Birks Building, Saskatoon.

Quebec: DR. JEAN PAQUIN, Le Collège des Médecins et Chirurgiens de la Province de Québec, 1896 Dorchester Street, Montreal.

The Registrar for Newfoundland is Dr. C. Macpherson, P.O. Box 5121, St. John's, Newfoundland.

GREAT BRITAIN AND IRELAND

The General Council of Medical Education and Registration has general supervision over the various licensing and examining Boards and keeps the Medical Register. The main licensing and examining bodies recognized in Great Britain apart from the universities are as follows:

In England:—The Conjoint Board of the Royal College of Surgeons of England and Royal College of Physicians of London, and the Society of Apothecaries, London. Information can be obtained from the Secretary of the English Conjoint Board, 8-11, Queen Square, Bloomsbury, London, W.C. 1, and the clerk of the Society of Apothecaries, Water Lane, Blackfriars, E.C. 4.

In Ireland:—The Conjoint Board of the Royal Colleges of Physicians and Surgeons of Ireland, and the Apothecaries' Hall of Ireland. Information can be obtained from the Secretary of the Irish Conjoint Board, Royal College of Surgeons, Dublin, and the Registrar, Apothecaries' Hall of Ireland, 93, Merrion Square, Dublin.

In Scotland:—The Conjoint Board of the Royal Faculty of Physicians and Surgeons of Edinburgh and the Royal Faculty of Physicians and Surgeons of Glasgow. Information can be obtained from the Secretary of the Scottish Conjoint Board, 49, Lauriston Place, Edinburgh.

Certificates of Queen's University Medical Faculty are accepted by these Boards for admission to their examinations, so that those possessing the degree of M.D. from Queen's University are entitled to all the privileges in Great Britain that are accorded to students and graduates of other Colleges and Universities within the Empire.

UNITED STATES

The Journal of the American Medical Association publishes an Abstract of the Laws regulating the Practice of Medicine in the various States and Territories of the United States. The price of the pamphlet is 50c., and it may be obtained by addressing the American Medical Association, 535 North Dearborn Street, Chicago, Ill.

The Medical School is listed as Class A by the Council on Medical Education and Hospitals of the American Medical Association.

COURSES OF INSTRUCTION

ANATOMY

Professor—D. C. MATHESON, M.B.

Assistant Professor—M. W. M. SLOANE, M.D., C.M., M.S.

Assistant Professor of Embryology—BENJAMIN KROPP, A.M.,
Ph.D.

Fellows—W. J. S. MELVIN, B.A., M.D., C.M.

W. A. L. McDONALD, M.D., C.M.

A

DESCRIPTIVE AND PRACTICAL ANATOMY

SECOND YEAR

The work of the Second Year includes (a) the dissection of the upper extremity, the head and neck and the thorax. The bones of each region are studied in connection with each part dissected. Lectures and demonstrations are co-ordinated with the work in the dissecting room. (b) In addition, a course of lectures is given on the anatomy of the body as a whole. This includes the definition of anatomical terms, a survey of the body systems and such special features as the structure and ossification of bones, classification of joints, the action of muscles, etc.

THIRD YEAR

(a) The remainder of the body is dissected, including the lower extremity, the abdomen and the pelvis: skeletal structures are studied in connection with the soft parts.

(b) A review of the regions dissected during the Second Year is required and some questions on the final examinations will be asked on this part of the work.

(c) Neuro-anatomy:—A lecture and laboratory course on the anatomy of the nervous system, designed to fulfil the needs of the undergraduate student. The various nuclei and tracts with their connections are considered, with emphasis on their functional importance.

Students must dissect the whole of the human body during the course. Preliminary and final oral or practical examinations are required from each student on each part dissected. Besides these, term written examinations are held in December, and final written examinations at the close of the spring term. Students must complete the dissection and take all oral examinations before being allowed to proceed with the final written examinations.

Bones of the head, trunk and upper extremity are loaned to second year students and bones of the lower extremity to third year students.

Encouragement is given to students of the 4th, 5th and 6th years who wish to do review work in the dissecting room.

APPROVED TEXT-BOOKS AND BOOKS OF REFERENCE

Cunningham, Gray, Morris, *Buchanan's Manual of Anatomy*. Frazer and Robbins: *Manual of Practical Anatomy*. Cunningham: *Manual of Practical Anatomy*. Le Gros Clark: *Practical Anatomy*. Jamieson: *Companion to Anatomy*. Johnston: *Synopsis of Regional Anatomy*. Grant: *A Method of Anatomy*. Mainland: *Anatomy as a basis for medical and dental practice*. Frazer: *The Anatomy of the Human Skeleton*. Sobotta-McMurrich: *Atlas of Human Anatomy*. Spaltholz: *Hand Atlas of Human Anatomy*. Toldt: *An Atlas of Human Anatomy*. Jamieson: *Illustrations of Regional Anatomy*. Grant: *An Atlas of Anatomy*. Frazer: *Manual of Embryology*. Callander: *Surgical Anatomy*. Ranson: *Anatomy of the Nervous System*. Strong & Elwyn: *Human Neuro-anatomy*. Livingston: *The Clinical Aspects of Visceral Neurology*.

B

EMBRYOLOGY. The course consists of a study of fertilization, cleavage, and organogeny, especially of the mammal, with illustrative material drawn from the chick and pig. Source articles in journals, and monographs, are used for collateral reading. Two lecture periods and three hours laboratory work each week throughout the second term of the second year.

Text: Hamilton, Boyd and Mossman: *Human Embryology*.

References: Keibel and Mall: *Embryology*. Patten: *Embryology of the Chick*. Patten: *Embryology of the Pig*. Carnegie Institution of Washington: *Contributions to Embryology*. Arey: *Developmental Anatomy*. Jordan and Kindred: *Textbook of Embryology*. Patten: *Human Embryology*.

C

MEDICAL AND SURGICAL ANATOMY

Associate Professor—S. W. HOUSTON, M.D., C.M., F.R.C.S.
(Edin.), F.R.C.S.(C).

The students are taught to make practical use of the facts of anatomy, and the application of these to medical and surgical practice is

shown. Attention is directed to the manner in which the anatomy affects the course and progress of disease, and to the alteration in the anatomical relations in disease. Special attention is given to displacements in fractures and dislocations, topographical anatomy, and ligation of arteries.

APPROVED TEXT-BOOKS

Fractures: Magnusson-Watson Jones. *Manual of Surgical Anatomy:* Jones and Shepard. *Atlas of Surgical Approaches:* Nicola. *Extensile Approaches:* Henry.

BACTERIOLOGY

Professor—G. B. REED, O.B.E., M.A., B.Sc., PhD., F.R.S.C.

Professor—JOHN H. ORR, M.D., C.M., F.R.C.P.(C).

THIRD YEAR

1. *General and Pathogenic Bacteriology.* This course covers the general principles of bacteriology. The lectures deal with the structure and physiology of bacteria, the theories of infection and immunity and a systematic study of the pathogenic bacteria. Laboratory practice includes the preparation of culture media and the biochemical, cultural and microscopic study of bacteria. The principal pathogenic bacteria are isolated from hospital material. Infection and immunity are studied experimentally in animals and serological reactions carried out on human material. This will be supplemented by a detailed bacteriological study of selected cases, with laboratory work, prescribed reading and reports.

Text-books: Jordan and Burrows. Zinsser and Bayne-Jones, *Text-Book of Bacteriology*; Topley and Wilson, *Principles of Bacteriology*.

ELECTIVE COURSES

1. *Immunology and Physiology of the Bacteria.* Lectures, reading and laboratory practice.

2. *Research.* Properly qualified students who wish to make a special study of Bacteriology are admitted to the laboratory to undertake special problems. This work may be carried out during the session or in the summer, or both.

3. *Studies leading to the degree M.Sc.(Med.).* The department offers facilities and supervision for graduates who desire to take this degree in Bacteriology.

BIOLOGY

Assistant Professor—H. WESLEY CURRAN, M.A., Ph.D.

Demonstrators—ROBERT I. BOWMAN.

WALTER HENSON.

FIRST YEAR

1. *General Biology*.—A course of three lectures and six hours of laboratory work per week throughout the session—botany in the first term and zoology in the second.

A general survey of the plant and animal kingdoms with laboratory work on representatives of the main groups. During the fall, field trips to local points of biological interest. A study of parasitology with special attention to those forms which occur in Canada. Comparison of various types of animals with emphasis upon mammalian anatomy. Principles of embryology, physiology, evolution and genetics.

Text-books: Holman and Robbins, *Textbook of General Botany* (John Wiley and Sons, fourth edition). Storer, *General Zoology* (McGraw-Hill).

BIOCHEMISTRY

Professor—R. GORDON SINCLAIR, B.A., Ph.D., F.R.S.C.

Associate Professor—J. F. LOGAN, M.A., Ph.D.

SECOND YEAR

This course is designed to bring out the general chemical principles underlying such processes as respiration, acid-base balance, water exchange, absorption and excretion and as well to cover in a fairly comprehensive manner the composition and function of the constituents of living things and of the foods which they require. Particular attention is paid to the biochemistry of the human organism. The relationship to clinical medicine is brought out by the discussion of the chemical basis of certain diseases.

Text-books: Hawk and Bergeim, *Practical Physiological Chemistry*; Harrow, *Textbook of Biochemistry*; Kleiner, *Human Biochemistry*.

Mitchell, *A Textbook in Biochemistry*.

Reference Books: Cameron and Gilmour, *The Biochemistry of Medicine*; Bodansky and Bodansky, *Biochemistry of Disease*.

CHEMISTRY

Professor—J. A. MCRAE, M.A., Ph.D., F.R.I.C., F.R.S.C.

Associate Professor of Biochemistry—J. F. LOGAN, M.A., Ph.D.

Assistant Professor of Chemistry—W. M. SMITH, B.Sc., Ph.D.

The lecture and laboratory classes in General and Organic Chemistry are conducted in Gordon Hall.

Examinations are held at intervals during the session and the standing of the student is determined by the results of these examinations and by the character of his laboratory work, as well as by the grade obtained at the annual examination.

No student is admitted to the annual examination who has failed to attain a satisfactory standard in the laboratory exercises.

A laboratory deposit is required to cover the cost of breakages of apparatus and damage to laboratory property and must be paid to the Treasurer of the University before a locker will be assigned.

FIRST YEAR

1. *General Chemistry and Analysis.*

(a) A course of two lectures per week on the fundamental laws and theories of these two subjects. This course includes a description of the common elements and compounds and a discussion of elementary qualitative analysis. The lectures are illustrated by demonstrations and laboratory exercises.

(b) A course of five hours per week of laboratory exercises. These exercises provide training in laboratory technique and include elementary qualitative and volumetric analysis.

Text-books:—Amsden: *Physical Chemistry for Premedical Students*. Hartsuch: *Elementary Qualitative Analysis*. Dorrance: *Experiments and Problems in General Chemistry*.

Professor Smith.

2. *Organic Chemistry.*

Two lectures, and one laboratory period of three hours per week are given so that the student will be well grounded in the fundamentals of Organic Chemistry, essential to the proper understanding of Biochemistry and its related sciences. Typical aliphatic and aromatic compounds are prepared, and their properties and reactions discussed.

Text-books:—Wertheim: *Textbook of Organic Chemistry*. Wertheim: *Organic Chemistry, Laboratory Guide*.

Professor Logan.

Students entering the Faculty of Medicine from the Faculty of Arts may receive credit for first year medical chemistry only if they

have passed with satisfactory standing Chemistry 1, 2, and 12 (Arts calendar of 1942-43 and preceding years) or Chemistry 1, 2, 10 and 12 (current Arts calendar).

ENGLISH

Professor—J. A. Roy, M.A.(Edin.).

The Department of English provides a course (English M) which must be taken by all first year Medical students. During the session one hour a week is devoted to the practice and technique of public speaking. Every student must take part during the term. He is allowed to select his own subject, and at the close of the hour the lecturer offers friendly and constructive criticism of his effort.

Prescribed texts: Foerster and Steadman, *Writing and Thinking*; *The College Omnibus*, 6th Edition, 1947, ed. J. P. McCallum; *The Concise Oxford Dictionary*.

Students must also read during the session a number of works by standard authors, e.g., *The Doctor's Dilemma*, *Ghosts*, *The Anatomist*, *Journal of the Plague Year*, etc. This list will be announced at the beginning of the term.

EYE, EAR, NOSE AND THROAT

Professor—F. A. CAYS, M.D.,C.M., F.R.C.S.(C).

Clinical Assistants—G. B. MACPHERSON, M.D.,C.M.

J. G. McBROOM, M.D.,C.M.

F. X. O'CONNOR, M.D.,C.M.

The course of instruction is carried on in the Kingston General Hospital. There is both an In-door and Out-door service. A large Clinic room, in which there are three cubicles, is used for clinics and for teaching the examination of patients.

This course is carried on during both fifth and sixth years.

Most of the work is clinical and in addition to this, a series of lectures is delivered upon the various diseases of the Eye, Ear, Nose and Throat.

Text-books:—May, Parsons, Gifford, Logan Turner, Morrison.

Reference Books:—Duke Elder, Brown, Fuchs, Ball, de Schweinitz, Jackson and Jackson, Berens, Kopetzky, Jackson, Imperatori, Portman.

MEDICAL JURISPRUDENCE

Lecturer—P. M. MACDONNELL, M.A., M.D.,C.M.

Lecturer—T. J. RIGNEY, B.A., K.C.

FIFTH YEAR

The course in Jurisprudence includes the following: legal criminal procedure; Coroner's court; medical evidence, identity; modes of dying; sudden death, signs of death; homicide, suicide; wounds, burns and scalds; suffocation, hanging and strangling; drowning, death from starvation, cold and heat, lightning and electricity; marriage and divorce; offences against chastity; pregnancy and delivery; criminal abortion; infanticide, causes of death to the foetus; legitimacy, impotence, sterility; malingering and feigned diseases; survivorship, life assurance, wills, malpractice; Workmen's Compensation Act.

A short course deals with Toxicology or the science of poisons embracing the detection and treatment of criminal and accidental cases.

BOOKS OF REFERENCE

Taylor; Hamilton; Peterson, Haines and Webster; Buchanan; Sidney Smith; Glaister.

MEDICINE AND CLINICAL MEDICINE

Professor Emeritus—W. T. CONNELL, M.D.,C.M., F.R.C.P.(C).

Professor—W. FORD CONNELL, M.D.,C.M., M.R.C.P.(Lond.), F.R.C.P.(C), F.A.C.P.

Associate Professor of Medicine—G. MALCOLM BROWN, M.D.,C.M., D.Phil. (Oxon.), M.R.C.P.(Lond.), F.R.C.P.(C).

Assistant Professor—B. H. HOPKINS, M.B.

Assistant Professor (in charge of Psychological Medicine)—C. H. McCUAIG, M.D.,C.M.

Lecturer—S. ROBINSON, M.D.,C.M.

Lecturer—J. T. TWEDDELL, M.D.,C.M.

Fellows—F. C. R. CHALKE, M.D.

W. A. YOUNG, M.D.,C.M.

Clinical Assistants—H. G. BIRD, M.R.C.P.(Lond.).

F. D. O'CONNOR, M.D.,C.M.

G. D. SCOTT, M.D.,C.M.

HELEN M. HOLDEN, M.D.

G. C. BEACOCK, M.D.,C.M.

H. M. CAMPBELL, M.D.,C.M.

J. E. GIBSON, M.D.,C.M.

MAURICE O'CONNOR, M.D.,C.M.

FOURTH YEAR

The instruction in this year covers the infectious diseases, diseases of the blood and lymph nodes, and the principles and methods of physical diagnosis. An introduction to the study of diseases of the heart and lungs is also provided.

FIFTH YEAR

During the fifth year the field of general medicine is covered in a course of lectures and clinical demonstrations.

SIXTH YEAR

Students in their sixth year are taught in small groups on the wards, and in a series of clinical conferences. Particular attention is given to differential diagnosis and therapeutics.

TEXT-BOOKS

Clinical Methods:

Hutchison and Hunter, *Clinical Methods*. Major, *Physical Diagnosis*.

General Medicine:

Cecil or Osler and Christian, *Principles and Practice of Medicine*.

Neurology:

Walshe, *Diseases of the Nervous System*.

Chest Diseases:

Coope, *Diseases of the Chest*.

Dermatology:

Manual of Dermatology (Military Manual, N.R.C.)

Therapeutics:

Beckman, *Treatment in General Practice*. Dunlop, Davidson and McNee, *Text Book of Medical Treatment*.

BOOKS OF REFERENCE

Cabot and Adams, *Physical Diagnosis*. Meakins, *Textbook of Medicine*. Yater, *Fundamentals of Internal Medicine*. Wintrobe, *Clinical Haematology*. Brain, *Diseases of the Nervous System*. Wilson, *Neurology*. Andrews, *Diseases of the Skin*. McKenna, *Skin Diseases*. Seman and Moritz, *An Atlas of the Commoner Skin Diseases*. Stokes, *Syphilis*. Moore, *Modern Treatment of Syphilis*. Top, *Communicable Diseases*. Norris and Landis, *Diseases of the Chest*. Davidson, *Practical Manual of Diseases of the Chest*. Lewis, *Diseases of the Heart*. White, *Heart Disease*. Levine, *Clinical Heart Disease*. Scherf and Boyd, *Cardiovas-*

cular Diseases. Lewis, *Peripheral Vascular Diseases.* Allen, Barker and Hines, *Peripheral Vascular Diseases.* Scherf and Boyd, *Clinical Electrocardiography.* Graybiel and White, *Clinical Electrocardiography.* Masters, *The Electrocardiogram and X-Ray Configuration of the Heart.* Boeckus, *Gastro-enterology.* Joslin, *Treatment of Diabetes Mellitus.* Duncan, *Diseases of Metabolism.* Grollman, *Essentials of Endocrinology.* McLester, *Nutrition and Diet in Health and Disease.*

OBSTETRICS AND GYNAECOLOGY

Professor—EDWIN M. ROBERTSON, M.B., Ch.B., F.R.C.O.G., F.R.C.S.
(Edin.), F.R.C.S.(C).

Associate Professor—PRESLEY A. MCLEOD, B.A., M.D., C.M., M.R.C.O.G.,
F.R.C.S.(C).

Assistant Professor—FERGUS J. O'CONNOR, M.D., C.M. (Division of
Obstetrics)

Assistant Professor—GORDON W. MYLKS, B.A., M.D., C.M., F.A.C.S.

FIFTH YEAR

During the session a course of lectures is given in three subjects:
(a) normal and abnormal obstetrics; (b) gynaecology; (c) normal
functions and diseases of the endocrine glands special to gynaecology.

Tutorial classes and manikin drill are held weekly for sections
of the class.

SIXTH YEAR

Instruction during the sixth year is mainly clinical, clinics and
practical instruction being given daily in the obstetrical and gynaecological
wards.

Members of the class, in rotation, "live in" while on special practical
obstetrical and gynaecological assignments.

Small sections of the class, in rotation, attend an antenatal clinic.

A course of lectures on "recent advances" and on subjects of major
importance receiving special attention in current literature is given
weekly.

Weekly a revision class is held in gynaecological and obstetrical
pathology. Each student receives a set of tissue sections which he must
examine, sketch and annotate.

PRACTICAL TEACHING AIDS

In the practical classroom display cabinets exhibit natural-colour
wax casts of normal organs and tumours and diseased organs common
in gynaecological and obstetrical practice. Also, full-scale models

allow visualization of intra-vaginal and intra-pelvic lesions: trans-illuminated photomicrographs and explanatory descriptions are set up side by side with the models. Modern instruments and drugs special to the practice of obstetrics and gynaecology are also on display. In the field of Endocrinology life-like figurines illustrate common endocrinopathies, monsters, dwarfs and conditions of abnormal obesity.

The practical classroom is always open and obstetrical manikins and instruments are available for the study of mechanisms of labour, the practice of delivery, fitting pessaries, etc.

The cinematograph is used so that mechanisms, management, manipulations and operative technique may be studied closely and discussed.

RECOMMENDED TEXT-BOOKS

Obstetrics: De Lee-Greenhill, Scott & Van Wyck.

Gynaecology: Curtis.

Pathology: Novak.

Journals: Amer. Jour. Obst. and Gyn.; *Obstetrics and Gynecological Survey*.

Nursing: Zabriskie.

Lay Reading: (also useful for students and practitioners)—The Canadian Mother and Child, (Dept. of Pensions and National Health); Getting Ready to be a Mother, (Corbin); Getting Ready to be a Father, (Corbin); Facts for Childless Couples, (Hamblen).

PATHOLOGY

Professor—JOHN D. HAMILTON, M.D.

Associate Professor—W. D. HAY, M.A., M.D., C.M.

Assistant Professor—CHESTER R. MCLEAN, M.D., C.M.

Assistant Curators of Museum—J. T. TWEDDELL, M.D., C.M.,
T. N. TWEDDELL, M.D., C.M.

Fellow in Pathology—HAROLD W. NEUMAN, M.D., C.M.

FOURTH YEAR

General and Systemic Pathology

Students of the fourth year attend courses of lectures, demonstrations, and study microscopic preparations covering ten hours per week throughout the academic session. The first third of this course is devoted to General Pathology, and the last two-thirds to Systemic Pathology. During the last half of the session, students are expected to attend autopsies.

FIFTH YEAR

Systemic Pathology

Students of the fifth year attend a series of lectures, demonstrations and laboratory sessions in Pathology, occupying five hours per week during the session. Students are required to attend autopsies throughout the session, and must have seen a minimum of fifteen autopsies before graduation.

Books—Obligatory Texts: Boyd, or Bell, or Kaarsner.

References: Moore, MacCallum, Forbus.

SIXTH YEAR

Clinico-pathological Conferences.—Conferences on medical and surgical cases in their clinical, pathological and bacteriological aspects are held each Saturday morning throughout the session. These are open to students of the fourth, fifth and sixth years. The cases brought up at these conferences form the basis of the reports mentioned above.

Students in the fourth, fifth and sixth years are required to assist and scribe at autopsies and to have cards filled for the same. These cards are to be returned to the Department of Pathology before the examination in Pathology of the Final Year.

PEDIATRICS

Professor of Pediatrics—R. R. MACGREGOR, M.D., F.R.C.P.(C).

Lecturer—J. S. DELAHAYE, M.D., C.M.

This course is taken in the fifth and sixth years, and is chiefly a clinical one. Instruction is given in the general care, management and feeding of infants and young children; the clinical investigation of diseases of infants and young children with management and treatment; injuries and diseases of the newly born; derangements of nutrition; and practical demonstrations in the preparation of infant foods.

A limited number of students is allowed to visit twice weekly the well baby clinic of the Victorian Order of Nurses, where instruction is given in the care and feeding of well infants and in immunization against certain diseases.

Text-books: Holt and McIntosh, Mitchell, Nelson.

BOOKS OF REFERENCE

Marriott, Abt, Hutchison, Porter and Carter, Garrod Batten and Thrusfield, Kuglemas, Brown and Tisdall.

PHARMACOLOGY

Professor—ELDON M. BOYD, M.A., M.D., C.M.

Associate Professor—DOUGLAS MC EWEN, M.A., Ph.D.

THIRD YEAR

The course in *Pharmacology* offered to students of the Third Year consists of two lecture and two laboratory hours per week throughout the session. The lecture course consists of a discussion of the history, pharmaceutical chemistry, metabolism, pharmacological actions and therapeutic uses, toxicology and method of administration of pharmacopœial and newer drugs affecting the central and peripheral nervous system. In the Pharmacological Laboratory, dispensing, chemical tests and pharmacodynamic actions of drugs will be undertaken by each student. A survey of laboratory results is prepared by all students and presented to the entire class in the form of a ten-minute seminar.

In addition, a course of one hour a week is given upon *Pharmacy*, emphasizing the essential principles and illustrated by prescription writing by members of the class.

In both these courses, approximately one-half of the final mark per student will be based upon work done during the year.

FOURTH YEAR

This course consists of three lecture hours per week throughout the session, during which the remaining groups of drugs will be discussed as in the Third Year. Students in the Fourth Year will be expected to know what was taken up in the Third Year.

BOOKS

General Pharmacology:—

Text: Printed Lecture Notes.

Reference: Cushny, Dilling, Douthwaite, Gilman and Goodman, Sollman.

Experimental Pharmacology:—

Text: Laboratory Manual.

Reference: Jackson, Sollman and Hanzlik.

Prescription Writing:—

Text: Printed Lecture Notes.

Reference: Eggleston, B.P., U.S.P., Bethea.

SUMMER COURSES

Facilities are available to properly qualified students to investigate

assigned problems of research during the summer months. Application for such appointments should be made not later than January of each year.

COURSES FOR THE DEGREE OF M.Sc.(Med.)

Candidates for the degree of M.Sc.(Med.) may select one or more courses in the department as part of their prescribed work. These courses consist of lectures, prescribed reading, seminars and experimental work.

PHYSICS

Professor—J. K. ROBERTSON, M.A., F.R.S.C.

Instructor—J. I. LODGE, B.A.

FIRST YEAR

1. *Elementary Physics.*

(a) A course of three lectures per week throughout the year. The course includes lectures on Statics, Dynamics, Properties of Matter, Heat, Sound and Light. Special emphasis is given to such subjects as Surface Tension, Osmotic Pressure, and some of the physical properties of Colloidal Solutions. Although the course is one on the fundamental laws of Physics, examples of the application of these laws to Medicine are introduced wherever it seems advisable to do so.

(b) Two hours per week in the laboratory.

Text-book: Stewart, *Physics* (Ginn & Co.).

SECOND YEAR

2. *Electricity and Magnetism, Conduction of Electricity through Gases, Roentgen Rays, Radioactivity and Nuclear Physics.*

(a) A course of two lectures per week in which a thorough elementary treatment of the above subjects is given. In the latter half of the course the lectures are designed to familiarize the student with modern X-ray equipment and its operation, with the physical nature of radiations of therapeutic value and with the medical aspects of nuclear physics.

(b) *Laboratory*—Two hours per week.

Text-book: Stewart, *Physics* (Ginn & Co.), or any good general physics; Robertson, *Radiology Physics*.

PHYSIOLOGY

Professor—G. SPENCER MELVIN, M.D.

Professor—G. HAROLD ETTINGER, M.B.E., B.A., M.D., C.M.,
F.R.S.C.

Lecturer—M. E. M. SAWYER, B.A., M.A., Ph.D.

SECOND YEAR

1. *Histology*. A detailed study is made of the principal tissues of the body by an examination of fresh preparations and mounted specimens. This is followed by a study of the structure of the organs of the body.

A collection of mounted slides is provided.

Text-books:—Jordan, *Text-book of Histology*; Maximow and Bloom, *Text-book of Histology*; Schafer, *Essentials of Histology*; Bailey, *Text-book*.

Books of Reference—Cowdry: *Special Cytology*. Quain's Anatomy: Vol. II, Pt. I—*Microscopic Anatomy*. Bolles Lee: *Microtomists Vade Mecum*. McClung: *Microscopical Technique*.

THIRD YEAR

2. *Experimental Physiology*. (a) A laboratory course is given in the dynamics of muscle and nerve, the nervous system, circulation, respiration, digestion, secretion, excretion, etc. (b) Students are arranged in small groups to carry out a number of survival experiments in the study of the endocrines. They are responsible for the operative work and are required to keep records and to undertake the necessary investigation during the progress of the experiment.

3. *Physiology*. The subject is treated systematically and the lecture course is supplemented by demonstrations and by the work in the experimental class. Special emphasis is laid on the application of application of Physiology to clinical study.

Text-books:—Bard, *McLeod's Physiology in Modern Medicine*; Best and Taylor, *Physiological Basis for the Practice of Medicine*.

Books of Reference: Bayliss: *Principles of General Physiology*. Newton: *Recent Advances in Physiology*. Schafer: *Text-book of Physiology*. Wiggers: *Physiology in Health and Disease*. Wright: *Applied Physiology*. Cameron: *Recent Advances in Endocrinology*. Schafer: *The Endocrine Glands*. Robson: *Recent Advances in Reproductive Physiology*. Cannon: *Mechanical Factors of Digestion*. Pavlov: *Work of the Digestive Glands*. Sherrington: *Integrative Action of the Nervous System*. Tilney and Riley: *The Form and Functions of the Central Nervous System*. Liddell and Sherrington: *Mammalian Physiology*. Markowitz: *Text-book of Experimental Surgery*. Allen, Danforth and Doisy: *Sex and Internal Secretions*.

OPTIONAL COURSES

4. (a) Graduate studies leading to the Degree M.Sc.(Med.).

The department offers instruction and research supervision and facilities for graduates who desire to take this degree in Physiology.

(b) Research in Physiology.

Properly qualified students are admitted to the laboratory for post-graduate study and special research, even if not proceeding to a degree. This work may be done during the summer months, as well as during the teaching session.

PSYCHIATRY

Professor and Head of Department of Psychiatry—

C. H. McCUAIG, M.D., C.M.

Assistant Professor—J. S. STEWART, M.D., C.M.

Clinical Assistant—MAURICE J. O'CONNOR, M.D., C.M.

Instruction in Psychiatry is given in the third, fourth, fifth and sixth years.

The third year course is chiefly concerned with Psychopathology and Abnormal Psychology having an especial bearing upon the psychoses and psychoneuroses and the emotional relationships in general medicine. Demonstrations as to the abnormalities of the various psychological functions, constitutional reaction types, personality deviations and the commoner mental mechanisms are stressed.

The fourth year course consists of lectures and clinics covering the various forms of mental disorders. Abundant material is available both at the Ontario Hospital and the General Hospital. Special emphasis is given to the psychoneurotic disorders from the ward services in the General Hospital.

Instruction in the fifth year is entirely clinical consisting of individual investigation of case material at the D.V.A. Hospital, the Ontario Hospital and the General Hospital.

In the final clinical year the students are given an opportunity to study and observe the various mental and emotional disorders, the various therapeutic measures employed in their treatment, emphasis being placed on the practical aspects of mental hygiene.

Text-books in Psychiatry:—

Henderson and Gillespie: *Text Book of Psychiatry.*

Strecker and Ebaugh: *Practical Clinical Psychiatry.*

Strecker: *Outline of Psychiatry.*

Weiss and English: *Psychosomatic Medicine*.
Noyes: *Practical Clinical Psychiatry*.

Text-books in Abnormal Psychology:—

Bridges: *Psychology, Normal and Abnormal*, 1930.
Fisher: *Introduction to Abnormal Psychology*, 1929.
McDougall: *Outline of Abnormal Psychology*, 1926.

PSYCHOLOGY

Professor—GEORGE HUMPHREY, M.A., Ph.D., F.R.S.C.

Instructor—J. H. HOUCK, M.A.

SECOND YEAR

The course in Psychology for second year students consists of lectures and demonstrations dealing with fundamental problems of thought, perception, and behavior during the first term, and with clinical manifestations of these problems in the second term. This course is in preparation for a later course in Psychopathology, given in the fourth year.

Texts:

Murphy, G., *A Briefer General Psychology*, 1935.

Text Book of Abnormal Psychology, Landis and Bolles.

PUBLIC HEALTH AND PREVENTIVE MEDICINE

The Arthur R. Elliott Professor—JOHN WYLLIE, M.A., M.D.,
B.Sc., D.P.H.

Lecturer—A. R. J. BOYD, B.A., M.D., C.M., D.P.H.

FIELD COURSE:

Outdoor visits to Public Health Schemes are arranged during the term September to December in the 4th Year. The visits include inspection of Water Supply Schemes, Sewage Disposal Plants, Ventilating and Heating Systems in schools, colleges and factories, an Incinerator Plant, a model Dairy Farm, a Pasteurizing plant, Food establishments, a Storage-battery plant, a Tile factory, and a Printing Press.

The expenses incurred in the outdoor visits along with the cost of material supplied in class to each student, are deducted from the sessional deposit.

The work of the Public Health Nurse in the City Health Department, the duties of the Social Service Worker in the Children's Aid Society and the functions of the Department of Social Welfare in the Community are described by the chief Administrators of these depart-

ments. The services of the Victorian Order of Nurses in the Community are described in a lecture-demonstration by the nurse in charge of the local clinic.

During the term January to April arrangements are made for small groups of students to attend a Child Welfare clinic, a Tuberculosis clinic, and a Mental Health clinic.

LECTURE COURSE I:

Medical students in their *4th Year* of study attend a course of didactic lectures during the terms September to December, and January to April, dealing with the sanitary aspects of Public Health.

The following subjects are discussed and illustrated with lantern slides: housing, air and ventilation, heating and lighting, water and water supply, domestic and community sanitation, school hygiene, industrial hygiene, occupational diseases and medical parasitology.

Laboratory demonstrations include chemical and bacteriological analyses of water and milk, methods for the detection of poisons and preservatives in foods, and microscopical exhibits of parasites in meat and the chief insect vectors of disease.

Medical Parasitology:

A series of weekly laboratory periods for medical students in the *6th Year* is arranged throughout the session, during which mounted and stained preparations are supplied to each student for microscopical examination. The course embraces topics in medical entomology, protozoology and helminthology.

LECTURE COURSE II:

Medical students in their *6th Year* of study attend a course of didactic lectures on Public Health administration, vital statistics and the preventive and epidemiological aspects of communicable diseases, during the term January to April.

A series of lectures on War Hygiene is supplemented by visits to a Military camp, a Naval unit and an Aerodrome.

BOOKS OF REFERENCE

Currie: *Manual of Hygiene*. Rosenau: *Preventive Medicine and Hygiene*. Prescott and Horwood: *Sedgwick's Principles of Sanitary Science and Public Health*. Boyd: *Preventive Medicine*. Smellie: *Preventive Medicine and Public Health*.

RADIOLOGY AND PHYSICAL THERAPY

Professor—W. A. JONES, O.B.E., M.D., F.R.C.P.(C), F.F.R.

Associate Professor—R. C. BURR, M.D., C.M., F.R.C.S.(Edin.),

FIFTH YEAR

One hour each week is given over to practical demonstration of X-ray films and lectures on radiographic diagnosis

One hour a week is used for classes in Radiotherapy and Physical Therapy. These classes include lectures on, and demonstrations of X-ray and Radium Therapy and all the standard physical therapeutic measures, and of manipulative surgery.

SIXTH YEAR

For one hour each week lectures and demonstrations in X-ray Diagnosis and Radiotherapy are given.

Note also, course of instruction to second year students in "Electricity and Magnetism, conduction of electricity through gases, Roentgen Rays and Radioactivity," given by Department of Physics.

BOOKS OF REFERENCE

Robertson: *Radiology Physics*. Shanks, Kerley and Twining: *A Textbook of X-Ray Diagnosis*. Pancoast, Pendergrass, Schaffer: *Head and Neck in Roentgen Diagnosis*. Golden: *Diagnostic Roentgenology*. Kohler: *Roentgenology*. Watson Jones: *Fractures and Other Bone Injuries*. Walter Mercer: *Orthopedic Surgery*. Comroe: *Arthritis*. MacKee: *X-Rays and Radium in the Treatment of Diseases of the Skin*. Detario: *Roentgen and Radium Therapy*. Pack and Livingstone: *Treatment of Cancer and Allied Diseases*. Canadian Medical Association: *Handbook on Cancer*. Cutler, Buschke: *Cancer, its Diagnosis and Treatment*. Pohle: *Clinical Roentgen Therapy*. Bierman: *Medical Application of a Short Wave Current*. Wolfe: *Textbook of Physiotherapy*. Krusen: *Physical Medicine*.

SURGERY

Professor—D. L. C. BINGHAM, M.B., Ch.B., F.R.C.S.(Edin.),
F.R.C.S.(C).

Associate Professor—S. W. HOUSTON, M.D., C.M., F.R.C.S.(Edin.)
F.R.C.S.(C.).

Associate Professor—D. W. BOUCHER, M.D., C.M., F.R.C.S.(Edin.)
Lecturer in Anaesthesiology—W. A. CAMPBELL, M.D., C.M.

Lecturer in Anaesthesiology—H. S. ANGROVE, M.D.,C.M.

Lecturer—BASIL M. KOSTER, M.D.

Clinical Assistant—G. C. LINDSAY, M.D.,C.M.

Clinical Assistant—H. M. WARNER, M.D.,C.M.

Surgical Registrar—A. H. MEGILL M.D.,C.M.

Clinical Assistant in Surgical Pathology—T. N. TWEDDELL,
M.D.,C.M.

Clinical Assistant in Anaesthesiology—A. D. MILLIGAN,
M.D.,C.M.

THIRD YEAR

The student is first brought in contact with hospital cases in the third year.

FOURTH YEAR

In the fourth year a course of systematic lectures on general surgery is given in which the principles and practice of surgery are discussed. Clinics are held in the General Hospital, the Hotel Dieu, and the Ontario Hospital. During the year emphasis is placed upon physical diagnosis and the general approach to the patient.

FIFTH YEAR

In the fifth year the surgical specialties are introduced to the student and emphasis is placed upon bedside teaching. During the second term a practical class is held on bandaging, the application of plaster of Paris splints, the administration of intravenous fluids, and other minor surgical procedures.

SIXTH YEAR

The sixth year is devoted chiefly to clinical surgery.

Clinics are held at the Kingston General Hospital, Rockwood Hospital, Kingston Veteran's Hospital and Hotel Dieu. In addition every possible opportunity is afforded the student throughout the session to attend operations performed by members of the staff at the different hospitals, a limited number of students being permitted to view the operations from the floor.

Anaesthesiology

A course of lectures is given in the fifth year, and practical demonstrations in the fifth and sixth years by Dr. Campbell and his staff.

Approved Text-books:

Christopher; Illingworth; Thomson, Miles, and Wilkie; Bailey and Love;
Homans; Romanis and Mitchiner.

Fractures: Watson-Jones.

Orthopaedics: Mercer; McMurray.

Physical Diagnosis: *Physical signs in Clinical Surgery*, Hamilton Bailey.

Anaesthesiology: Minnit and Gillies, *Text Book of Anaesthetics*.

UROLOGY

Professor—N. E. BERRY, M.D.,C.M.

Clinical Assistant—E. P. WHITE, M.D.,C.M., F.R.C.S.(Edin.).

FIFTH YEAR

A course of lectures is given of one hour a week covering venereal diseases and general urology.

The students attend, in rotation, the general venereal clinic.

SIXTH YEAR

The course consists of two hours per week and is devoted largely to clinical and operative urology. An attempt is made to familiarize the student with simple instrumental procedures by taking the students in small groups.

BOOKS OF REFERENCE

Eisendrath and Rolnick: *Urology*. LeComte: *Manual of Urology*.
Burke: *Venereal Diseases*.

MEDALS, SCHOLARSHIPS AND PRIZES

SIXTH YEAR

Awarded February, 1946

Medal in Medicine:

Fred Baillie Rabkin, M.Sc., Winnipeg, Manitoba.

Medal in Surgery:

Lawson Bruce Cronk, Belleville, Ontario.

The Mylks Medal in Obstetrics and Gynaecology:

Aron David Claman, B.A., Saskatoon, Saskatchewan

The W. W. Near and Susan Near Pries of \$100.00 awarded to the student making the highest standing throughout the medical course; and of \$70.00 to the student making the second highest standing:

1st: Frederick Robert Doerffer, Hamilton, Ontario.

2nd: Lawson Bruce Cronk, Belleville, Ontario.

The Dean Fowler Scholarship of \$40.00 for the highest marks in the examinations of the sixth year:

Aron David Claman, B.A., Saskatoon, Saskatchewan
John Clinton McIntosh Fetterley, Oshawa, Ontario } equal

The Edgar Forrester Scholarship of \$40.00 awarded to the student making the highest number of marks in final year Medicine and Clinical Medicine:

Fred Baillie Rabkin, M.Sc., Winnipeg, Manitoba.

The Professor's Prize in Surgery and Clinical Surgery:

John Clinton McIntosh Fetterly, Oshawa, Ontario.

The Professor's Prize in Obstetrics and Gynaecology:

William Edwin O'Hara, Brockville, Ontario.

The Ontario Medical Association Prize of \$25.00 for the highest marks in Preventive Medicine:

Robert Kennedy Smiley, B.A., Wolseley, Saskatchewan.

The Professor's Prize in Preventive Medicine:

Marcel Blanchar, B.A., Kingston, Ontario.

The David Edward Mundell Prize of \$40.00 for the highest aggregate marks in the Surgical Applied Anatomy Final Examinations of the fifth and sixth years:

Robert Kennedy Smiley, B.A., Wolseley, Saskatchewan.

The Neil Currie Polson Memorial Prize of \$50.00 awarded to the student in final year Medicine judged by his teachers to be the best adapted to apply his training in practice:

John Clinton McIntosh Fetterly, Oshawa, Ontario.

The Hannah Washburn Polson Prize of \$50.00 for proficiency in Clinical Diagnosis in Medicine, Surgery and Obstetrics:
Lawson Bruce Cronk, Belleville, Ontario.

The John Franklin Kidd Essay Prizes for the best essays on a surgical topic:

- (1) John Andrew Milliken, Regina, Saskatchewan.
- (2) Frederick William Arber, Tweed, Ontario.

The Victor Lyall Goodwill Memorial Prize of \$100.00 for an essay on some aspect of the study of Mental Disease:

John Andrew Milliken, Regina, Saskatchewan, and
Robert Kennedy Smiley, B.A., Wolseley, Saskatchewan

The Professor's Prize for Pathological Case Reports: (equal).

Clarence Andrew Coady, B.A., Hazelbrook, Prince Edward Island.

James Publow Grant, Kingston, Ontario.

John Andrew Milliken, Regina, Saskatchewan.

FIFTH YEAR

Awarded May, 1946

The Reuben Wells Leonard Penultimate Year Scholarships of the values of \$300 and \$200. Awarded to the students obtaining highest and second highest standing respectively at the end of the penultimate year. The student must be in attendance in the final year.

1st: Margaret Sarah Elliott, Tweed, Ontario.

2nd: James William Pearce, Port Dover, Ontario.

The W. W. Near and Susan Near Scholarship of \$50 to the student with the second highest standing in the fifth year:

James William Pearce, Port Dover, Ontario.

The Victor Lyall Goodwill Memorial Scholarship of \$100 in Internal Medicine:

Herbert William Henderson, St. Catharines, Ontario

The Canadian National Committee for Mental Hygiene Prize of \$50 in Psychiatry:

John Pierre Piderman, Port Coquitlam, British Columbia.

The B. T. McGhie Memorial Scholarship of \$100 in Psychiatry and Psychosomatic Medicine:

Herbert William Henderson, St. Catharines, Ontario.

THIRD YEAR

The W. W. Near and Susan Near Scholarships of \$80 to the student making the highest standing on the examinations of the third year,

and of \$40 to the student making the second highest standing.

1st: William Joseph Edmund Spence, Perth, Ontario.

2nd: Honour: James Delmar Blaine, Carleton Place, Ont.

Award: Edward Armon Atack, Kingston, Ont.

The Boak Scholarship of \$25 awarded to the student making the highest marks in the written and oral examinations in Anatomy of the third year.

Walter Grettir Kristjanson, Geraldton, Ontario.

The N. F. Dupuis Scholarship of \$50 awarded to the student making the highest marks in Chemistry of the third year.

Honour: William Joseph Edmund Spence, Perth, Ontario.

Award: James Delmar Blaine, Carleton Place, Ont.

SECOND YEAR

Awarded May, 1946

The W. W. Near and Susan Near Scholarships of \$80 awarded to the student making the highest standing on the examinations of the second year, and of \$40 to the student making the second highest standing:

1st: Gerald Cameron Thomas, Ottawa, Ontario.

2nd: Honour: John Stewart McIlraith McAuley, Ottawa, Ont.

Award: James Ernest Devitt, Ottawa, Ontario.

The Helen E. Dwyer Memorial Scholarship of \$50 for the highest marks in Embryology and Histology of the second year:

John Stewart McIlraith McAuley, Ottawa, Ontario.

FIRST YEAR

Awarded May, 1946

The Robert Bruce Scholarship awarded to the student of Scottish extraction making the highest number of marks on the regular examinations of the first year:

Caroline Phelps Coghill, Ottawa, Ontario.

The W. W. Near and Susan Near Scholarships of \$80 awarded to the student making the highest standing on the examinations of the first year, and of \$40 to the student making the second highest standing:

1st: Arthur Leslie Perry, Canora, Saskatchewan.

2nd: Irving Soloway, Ottawa, Ontario.

The Roberta McCulloch Scholarship in English awarded to the student standing first in Medical English:

John Ralph Gordon, Schreiber, Ontario.

STUDENTS IN ATTENDANCE

1946-1947

SIXTH YEAR

September, 1946, to May, 1947

Lloyd Hanbur Annis	Owen Sound, Ont.
Gordon Walter Duncan Armstrong	Ottawa, Ont.
Richard Edward Beck	Vancouver, B.C.
Alice Winnifred Bertram, B.A.	Dundas, Ont.
Thomas James Bresnahan	Pembroke, Ont.
Frederic Norman Brown	Ottawa, Ont.
Martin William Chepesiuk, B.A.	Kingston, Ont.
David Cohen, B.A.	Westmount, Que.
Fischel Jerome Coodin	Fort William, Ont.
Joseph Alexander Stewart Dorrance	Kingston, Ont.
Emerson Cushing Dowd	Ottawa, Ont.
Herbert Ebner, B.A.	Montreal, Que.
Sarah Margaret Elliott	Tweed, Ont.
Leo Irwin Erdil, B.A.	Kingston, Ont.
Archie Richard Foley, B.A.	Howe Island, Ont.
William Robert Ghent	St. Catharines, Ont.
Lazarus Gossack, B.A.	Montreal, Que.
Norman Nelson Halpern	Montreal, Que.
George Eugene Hayunga	Tuckahoe, N.Y.
Herbert William Henderson	St. Catharines, Ont.
Richard Franklin Hesler	Welland, Ont.
Edwin Holmes, B.A.	Montreal, Que.
Paul Kowalishin	Canora, Sask.
Sidney Kronick	Ottawa, Ont.
Frederick Howard Lapp	Kingston, Ont.
James Hayden Lindsay, B.A.	Montreal, Que.
William Frederick Lingard	Port Hope, Ont.
Jack Leonard McMillan, B.A.	Vancouver, B.C.
James Henry Storey Mahood, B.A.	Kingston, Ont.
Gilles Marion	Ottawa, Ont.
John Edward Merriman	Ottawa, Ont.
George Lashley Mullin	Kingston, Ont.
James Howard Nelson, B.A.	Brandon, Man.
James William Pearce	Brantford, Ont.
Charles Bernard Pender	Prescott, Ont.
John Pierre Piderman	Port Coquitlam, B.C.
Lionel Resnikoff	Peekskill, N.Y.
John Charles Arthur Sibley	Vancouver, B.C.
Max Vechter	Belleville, Ont.

Albert George Vey Victoria, B.C.
James Cramer Woodman Kingston, Ont.

FOURTH YEAR

September, 1946, to May, 1947

Glen John Ankenman	Gowanstown, Ont.
Edward Armon Attack	Kingston, Ont.
Ralph Delos Atyeo	Belleville, Ont.
William Bolton Beattie	Renfrew, Ont.
Franklin Berkman	Ottawa, Ont.
Thomas Murray Black	Regina, Sask.
James Delmar Blaine	Carleton Place, Ont.
David Alexander Boyes	Vancouver, B.C.
Clifford John Carnahan	Hamilton, Ont.
George Clifford Clark	Kingston, Ont.
John Blair Cockburn	Ottawa, Ont.
Stephen Burritt Collins	Ottawa, Ont.
Peter William Davey	Hamilton, Ont.
Frederick Rayson Downer	Vancouver, B.C.
John Gordon Erickson	Vancouver, B.C.
Patrick Joseph Farrell	Copper Cliff, Ont.
Arnold Goldstein	Prince Albert, Sask.
Harold Gordon Hamilton	Westport, Ont.
Richard Charles Horatio Hitchen, B.A.....	Vancouver, B.C.
John Howard Houck, M.A.....	Brampton, Ont.
Ernest Arthur Jarman	Vancouver, B.C.
Tibor Marton Jeremias	Niagara Falls, Ont.
Walter Grettir Kristjanson	Geraldton, Ont.
Charles Gordon Louden	Morrisburg, Ont.
Donald Angus McMillan	Thorold, Ont.
Gordon James Mack	Toronto, Ont.
Glenn Marvin Martin	Ottawa, Ont.
Helen Louise Martin	Winnipeg, Man.
Stanley Fred Morrill	Schreiber, Ont.
John Joseph Neville	Tamworth, Ont.
Donald Oakley	Vancouver, B.C.
John Stewart Packham	Caistor Centre, Ont.
Herbert Garfield Parkin	Norwood, Ont.
Paul Peters	Regina, Sask.
John Redmond Phillips	Oakville, Ont.
Kenneth Graham Phin, B.A.....	Whitby, Ont.
Arthur Edward Ross	Kingston, Ont.
Wilfred Arthur Roy	Timmins, Ont.
Joseph Elso Anthony Schincariol	Windsor, Ont.
Norman Andrew Scott	Peterborough, Ont.

Melville Howard Shaw	Vancouver, B.C.
Donald Thomas Smylie	New Liskeard, Ont.
William Joseph Edmund Spence	Perth, Ont.
George Hamilton Stone	Listowel, Ont.
Trevor James Guy Thompson	Hamilton, Ont.
John Edward Vincent, B.Sc.	Montreal, Que.
William Charles Wedlock, B.A.	Peterborough, Ont.
Ethel Ruth Whitfield, B.A.	Belleville, Ont.

THIRD YEAR

September, 1946, to May, 1947

Theodore Augustus Anderson	Renfrew, Ont.
Lyon, Henry Appleby, B.A.	Vancouver, B.C.
Nancy Eileen Armbrust	Fenwick, Ont.
William Arthur Douglas Blair	Perth, Ont.
John Douglas Bonell	Ottawa, Ont.
Ronald Ritchie Bonnell	Victoria, B.C.
Donald Earl Bowes	Turtleford, Sask.
Lewis Stafford De Summarey Carey....	Pender Harbour, B.C.
Wallace Belton Carruthers	Florence, Ont.
George Edward Cragg	Vancouver, B.C.
James Eric Curtis	Windsor, Ont.
Sydney Thomas Dallimore	Kingston, Ont.
Malcolm Hewlin Clark Dean	Caledonia, Ont.
Donald James Delahaye	Kingston, Ont.
James Ernest Devitt	Ottawa, Ont.
Edward Walker Dow	Kingston, Ont.
John Francis Flood	West Coxsackie, N.Y.
Eve Forrest	Port Coquitlam, B.C.
George Frkovich	Kapuskasing, Ont.
James Eastwood Gibbons	Smiths Falls, Ont.
Percy Vaughan Gladdy	Sarnia, Ont.
John Elmer Green	Burgessville, Ont.
Campbell Gulliford	St. John's, Nfld.
Robert Deighton Wilson Guselle	Arnprior, Ont.
Robert William Vance Hanbidge	Humbolt, Sask.
James Donald Hare	Simcoe, Ont.
John David Haynes	Mactier, Ont.
Mervyn Alexander Hopkinson	Hamilton, Ont.
William Oliver Jackson	Simcoe, Ont.
Gordon Albert Judge	Burford, Ont.
Edward Hamilton Newill Lambert, B.A....	Oakville, Ont.
Samuel Francis Legris, B.A.	Sudbury, Ont.

John Stewart McIlraith McAuley	Ottawa, Ont.
Neil Bruce McCannel	Regina, Sask.
Gilbert Norman McIlveen	Bowmanville, Ont.
Augus Hugh MacMillan	Regina, Sask.
David Morris Marcus	Belleville, Ont.
Mary Julia Mate	Fort Erie, Ont.
Robert Isaac Merritt	Smithville, Ont.
John Colvin Morgan	Fort William, Ont.
Walter Ivan Neilson, B.Sc.	Lennoxville, Que.
James Edward Nelles	Hamilton, Ont.
John Page	Owen Sound, Ont.
Vincent John Politi	Hamilton, Ont.
Edythe Evelyn Porter	Oxenden, Ont.
James Ronald Scott	Penetanguishene, Ont.
Sydney Segal, B.Sc.	Montreal, Que.
William Ruthman Simon	Brockville, Ont.
Gerald Cameron Thomas	Ottawa, Ont.
Durrand Everett Wallar	Winnipeg, Man.
Harold Foord Williamson	Belleville, Ont.
Thomas Inman Woodley	Belleville, Ont.

SECOND YEAR

September, 1946, to May, 1947

George Granville Allen	Regina, Sask.
William Henry Barnes	Ottawa, Ont.
Beverly Jane Baxter	Hamilton, Ont.
Donald William Baxter	Colborne, Ont.
William Herbert Boquist	Kenora, Ont.
Donald Wesley Carnduff	Kenora, Ont.
John Kenneth Clayton	Ceylon, Sask.
Caroline Phelps Coghill	Ottawa, Ont.
James Maurice Cornell	Fort William, Ont.
Harold Wallace Cumming	Kingston, Ont.
Malcolm Joseph Delaney	Prescott, Ont.
Robert Andrew Duncan	Kingston, Ont.
Harold Yale Fenwick	Hamilton, Ont.
John Charles Gallivan	Ottawa, Ont.
John Ralph Gordon	Schreiber, Ont.
Lloyd Carman Guest	Billing's Bridge, Ont.
Raymond John Halliday	Kingston, Ont.
John Nicholas Hartt	Trenton, Ont.
Albert Gordon Hewitson	Cornwall, Ont.
Norman Alexander Hinton	Kingston, Ont.

Norris Edmund Hunt	Ottawa, Ont.
Edwin Sylvester Janack	Iroquois, Ont.
Thomas Carman Johnson	Murrayville, B.C.
Duane Willis Justus	Chesterville, Ont.
Harry Walker Keenan	Ottawa, Ont.
Stanley Richard Lang	Toronto, Ont.
Walton William Langford	Hamilton, Ont.
James Forest Lind	Keewatin, Ont.
Walter William Lomax	St. Catharines, Ont.
Cortlandt John Gordon Mackenzie	Toronto, Ont.
John Kenneth MacKenzie	Lucknow, Ont.
Ian Ross McLean	Toronto, Ont.
Lawrence Malloy	Kingsville, Ont.
Herbert Gordon Metcalfe, B.Sc.....	Aylmer East, Que.
Alvin Ketcheson Miller	Belleville, Ont.
Bruce Evan Morgan	Hamilton, Ont.
Desmond Francis Morrow	Copper Cliff, Ont.
Harold Ormond Murphy	Saskatoon, Sask.
Arthur Leslie Perry	Canora, Sask.
Allan Seymour Porter	Kingston, Ont.
Kasmar Vincent Rudnick	Noranda, Que.
Andrew Constantine Sawchuk	Canora, Sask.
Garnet Ralph Schamehorn	Kingston, Ont.
Milton Donald Snarch, B.A.	Montreal, Que.
Irving Soloway	Ottawa, Ont.
Hugh Douglas Sproule	Kingston, Ont.
William Bradfield Stevens	Vancouver, B.C.
Cameron Colville Stewart	Hamilton, Ont.
Frank Joseph Stojan	Trenton, Ont.
William Taylor	Hamilton, Ont.
Merle Leigh Trewin	Ottawa, Ont.
Henry Abram Unruh, A.B.	Kingston, Ont.
Norman Ballantyne Urie	Ottawa, Ont.
William Elmer Warwick	Vancouver, B.C.
Ormond Allison Weir, B.A.	Peterborough, Ont.
Donald Pearson Whittier	Ottawa, Ont.

FIRST YEAR

September, 1946, to May, 1947

Frank George Adderley	Toronto, Ont.
Wilfred Stuart Bailey	Toronto, Ont.
John Edward Boak	Victoria, B.C.
Norman William Bradford	Corbyville, Ont.
Campbell Glen Cameron	Belleville, Ont.

Hugh Chisholm Campbell	Toronto, Ont.
James Wallace Charters	Hamilton, Ont.
Betty Cecilia Chinn	Victoria, B.C.
Robert William Cornett	Hamilton, Ont.
Kenneth George Cox	Toronto, Ont.
Ross Henderson Craig	Ottawa, Ont.
James Higgs Jefferson Daniels	Belleville, Ont.
Nicholas DeMarco	Leaside, Ont.
Robert Stevenson Dolman	Hamilton, Ont.
Ainslie Hamilton Dowd	Ottawa, Ont.
Benjamin Horace Dunn	Aylmer East, Que.
Emmett John Dunne	Ottawa, Ont.
Benella Gallup	Santa Barbara, Calif.
Grahame Frewer Gower	Midland, Ont.
John James Goyeche	Westmount, Que.
Sydney Lewis Handford	Arnprior, Ont.
Frederick Elton Hemingway	Hamilton, Ont.
John Henry Hemming	Hamilton, Ont.
Ernest Harold Holland	Rocanville, Sask.
Norman Stewart Jones	Toronto, Ont.
Eric Ronald Keirstead	Hillsboro, N.B.
Harold Eugene Laycock	Walter's Falls, Ont.
Robert Henry Lee	St. John, N.B.
Alice Jean Lett	Snow Road, Ont.
Joseph Ernest Loree	Guelph, Ont.
Hugh Daniel Joseph McCoy	Ottawa, Ont.
Hugh MacDonald	Kingston, Ont.
Charles Grant MacKenzie, B.A.	Oakville, Ont.
Alexander Francis McKinnon	Sudbury, Ont.
Joseph Alexander MacLean	Greenfield, Ont.
Samuel Keith MacLean, B.Sc.	Sherbrooke, Que.
William George Milligan	Hamilton, Ont.
David Emerson Moors	Kingston, Ont.
Leslie Louis Mould	Orillia, Ont.
John James Murie	Hamilton, Ont.
Frederick William Murphy	Kingston, Ont.
Margaret Lilian Peddie	New Westminster, B.C.
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